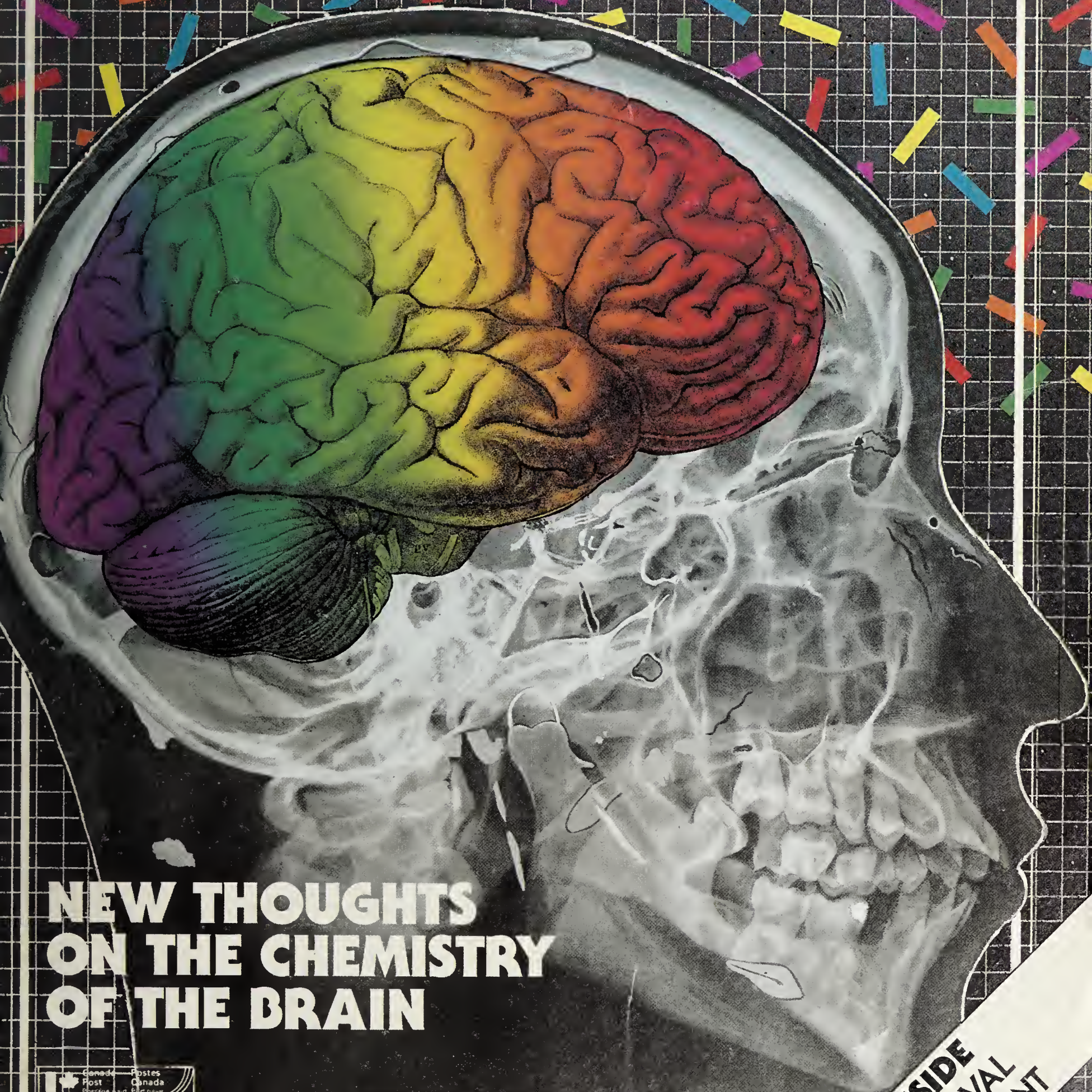


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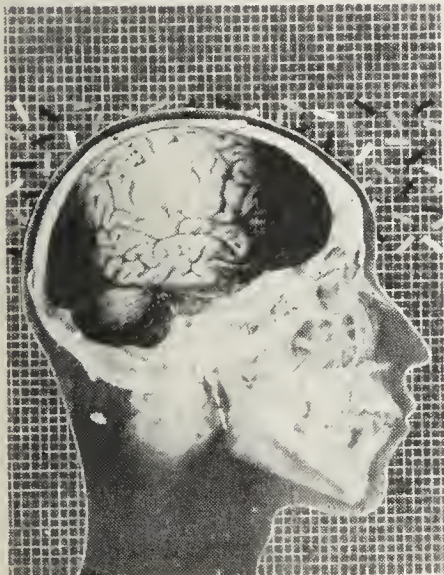
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GRADUATE



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Cover Collage: Rob Wilson

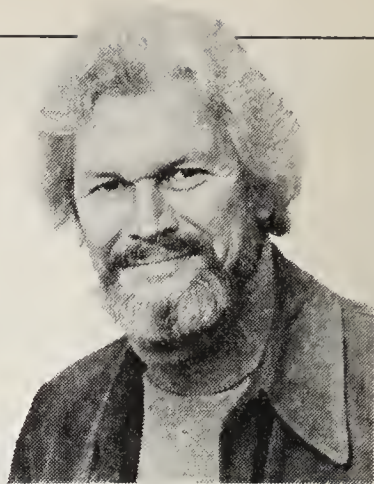
Advisory Board: Jack Batten, B.A., LL.B., *chairman*; Prof. William B. Dunphy, B.A., M.A., Ph.D.; Joyce Forster, B.A.; Sally Henry, B.A.; James Joyce, B.Com.; Martin O'Malley; E.B.M. Pinnington, B.A. *director, Alumni Affairs*; Elizabeth Wilson, B.A., *director, Information Services*.

Alumni Address Changes: Please send mailing label or quote number at its top to Alumni Affairs, University of Toronto, Toronto, M5S 1A1; (416) 978-2139.

Address all other correspondence to Department of Information Services, University of Toronto, Toronto, M5S 1A1; (416) 978-2104.

Advertising Representatives: Alumni Media Ltd., 124 Ava Road, Toronto, M6C 1W1; (416) 781-6661. Printed in Canada by RBW Graphics.

The Graduate, with a circulation of 138,000 is published five times a year by the Department of Information Services, University of Toronto. All material is copyright © 1982 Governing Council, University of Toronto, and may be reprinted with written permission. Graduates of the University of Toronto receive *The Graduate* free of charge. Others who wish to subscribe may do so: \$10 (Canada and U.S.A.); \$15 (abroad). Please make cheques payable to *University of Toronto*. ISSN 0042-0212



THE 18% SOLUTION

Now that we are rich beyond our wildest dreams [see Campus News on page 17 for details] the question is, can anyone afford to maintain us in the style to which we'd like to become accustomed?

It is not an idle question. The University must find an additional \$20 million for 1983-84 alone, and some of us play with some very expensive toys, and *The Graduate* is one of them. We who labour so assiduously to produce this friendly confection five times a year are being looked at askance. Yes, they say, it's a nice little magazine if sometimes bumptious, but of what importance is *The Graduate* to the well-being of the University? What contribution does it make to the cause and very survival of higher education?

We share the parliamentarian's reluctance to discuss salary adjustments which have been inflicted upon us by an outside arbitrator, but we digress. The question being addressed here is that of the usefulness of *The Graduate* to the University and as with any other magazine the answer must come ultimately from the readers.

Perhaps the most persuasive evidence I can find that the magazine is fulfilling some sort of role is in the Letters column. I'm not referring to the ones that simply say "keep up the good work", although they are always welcome, so much as the thoughtful, concerned letters sometimes critical, other times adding information a writer may have missed or not had access to. Sidney T. Fisher's letter on the nuclear hazards of hydrogen-generated electrical power in the May/June 1982 issue was a fine example and Marc Lalonde's rebuttal [page 23] is another. But Professor Eric Arthur's lovely reminiscence [page 23 again] is the sort of letter that tells me that people are reading the magazine and responding to it in a very personal way. It is encouragement that comes at a felicitous time.

Many of you have responded to our quiet campaign for Voluntary Subscriptions and it is our fervent wish that your numbers grow exponentially. That is the diabolically clever device whereby it is suggested that if you enjoy reading *The Graduate*, and despite the fact that you are receiving it free as long as we know your address, you might like to pay for it. In fact there are well over a thousand readers who have sent in those \$10 cheques, often with a pleasant note attached, and many of you have been renewing your Voluntary Subscriptions each year. We are truly grateful for such a show of enthusiasm and support but are mindful as well that our total circulation averages more than 135,000.

Several faculties — engineering, nursing, pharmacy,

management studies and the School of Graduate Studies — choose to have us include their own alumni newsletters bound within *The Graduate* partly to save on costs but also, we like to think, because both publications benefit. Certainly the September/October issue of *The Graduate* is regarded as of particular importance to the Engineering Alumni Association. That is the first issue that reaches the hundreds of new alumni. The University has long tried to involve young alumni and John Voss, the new editor of the *Engineering Newsletter*, graduated this year.

It is perhaps not entirely coincidental that engineering alumni have long had the reputation of being, by faculty, among the most generous contributors to the University. Not because of a link with *The Graduate* but because of the aggressive ingenuity with which they pursue their own, of which the link is typical.

The Graduate has altered format many times and has suspended publication twice and in a time of financial restraint its future is by no means guaranteed. Only if you and the University perceive its importance will it likely survive.

*

During the past year several honours have come to *The Graduate*. In May the Canadian Science Writers' Association announced that freelance writer Lydia Dotto had won the science journalism award for her article Thinking Small, an explanation of research into particle physics which appeared in the November/December issue. In June the Association of Canadian University Information Bureaus gave staff writer Pamela Cornell two awards of excellence, one for her profile of former arts and science dean Arthur Kruger, published in the September/October issue, and the other for an article on stress testing published in the campus newspaper, the *Bulletin*. And in July the Council for Advancement and Support of Education announced that for the second year *The Graduate* has been nominated as one of the top ten university magazines in North America.

Our congratulations and appreciation to all.

Editor



These two made millions the hard way

Dr. Morton Shulman (left) and Andrew Sarlos are on our Advisory Board including eight of Canada's top financial and advisory experts. Their spectacularly successful techniques, acquired by trial and error, are covered step-by-step in *Successful Investing & Money Management*.



These two are doing it an easier way.

TV newscaster R. Bruce Mitchell had never earned more than \$30,000 a year, yet accumulated \$75,000 in 2 years by applying the methods taught in *Successful Investing & Money Management*. And career woman May Aitken's money has grown to 5 times its original worth in just 2 1/2 years.

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Our students learn to split their incomes, choose the right tax shelters, borrow money to make money; thus leveraging their profits on stock, real estate, currencies and stamps. They make inflation work for them, not against them.

"Not bad for beginners"

R. Bruce Mitchell and May Aitken (pictured at left) are typical of our students. So is Merl E. Alden, who reports: "We've increased our net worth ten times over. Not bad for beginners." If you had been in their shoes...

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NEW THOUGHTS ON THE BRAIN

BY ROBBIE SALTER

THE HUMAN BRAIN, A three-pound organ that looks like a simple mound of sculpted putty, gives no hint of the complexities that lie beneath its surface, creased and crinkly here, curving there.

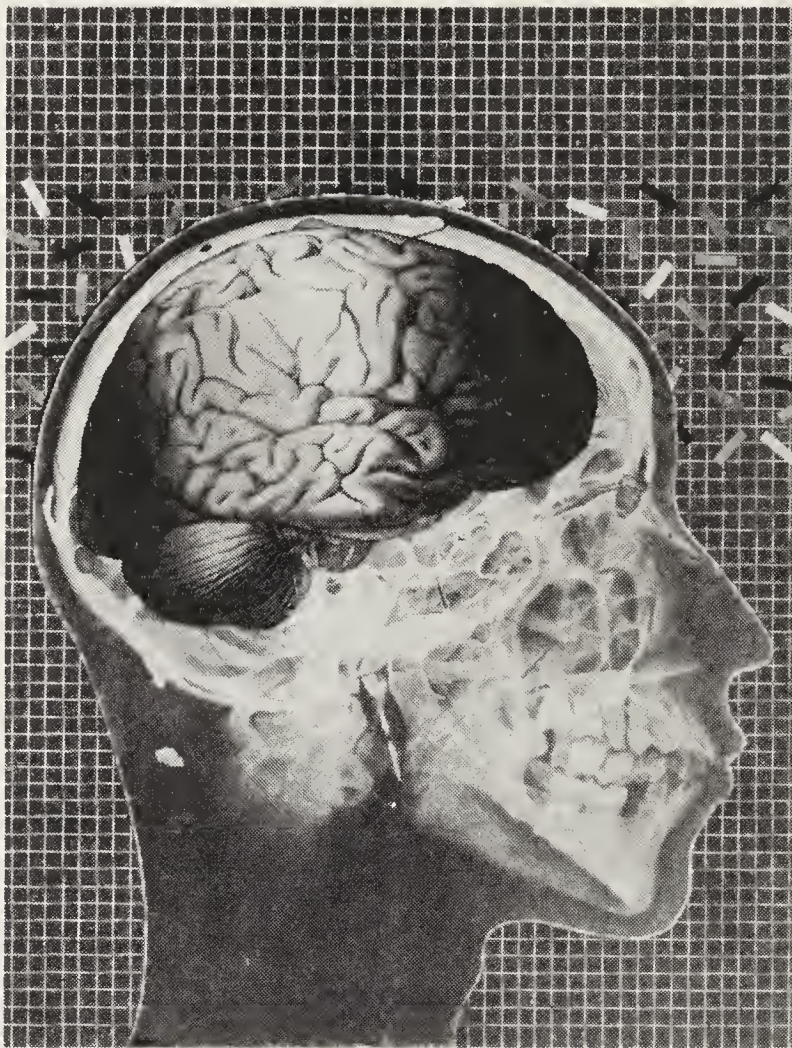
One thing seems sadly certain, though, our brain cells and their extensions — neurons — are not replaced if they die or are destroyed; and age, abuse, and disease take their toll all the way through life.

Over the years scientists have been both fascinated and frustrated in their struggles for a greater understanding of the workings of the brain. They have only their own brains to study man's brain, the most complex organ in the body! The impasse was summed up by the late Ambrose Bierce, an American journalist, who observed that the brain "has nothing but itself to know itself".

Today, however, the brain has the help of sophisticated technology. In the past ten years neuroscientists have discovered that how we feel about life, ourselves, our moods, our mental health depends largely upon our neurotransmitters, those minute amounts of chemical messengers that carry electrical impulses from one neuron to another.

An electrical wave moves through the cell body into its long, slender axon where neurotransmitters are synthesized and stored, ready for release. When the signal is given, the chemical seeps into the synapse, a tiny gap of two-millionths of a centimeter between the neurons. A neurotransmitter may either stimulate or suppress a neighbouring neuron. And the storage, the timing of release, and the uptake of a neurotransmitter are all believed to be pivotal in depression and psychoses — as well as good mental health and normal physical motion.

At present there are thought to be two or three dozen neurotransmitters and there may be many more making their synaptic links with the brain's billions of neurons.



Neurotransmitter activity takes place throughout the brain, but scientists are finding the chemical exchanges taking place in its limbic system to be of special interest.

In the 1950's Dr. Paul MacLean of the National Institutes of Health in Bethesda, Maryland, fathered the idea that we have a three-part or "triune" brain. He pictured the brain as having new structures, "wings and stories added to an old building". He also saw the evolution of the family developing with the evolutionary changes in the brain.

There was the deep, primitive reptilian layer, as compulsive and ritualistic as that of our cold-blooded ancestors who were capable of eating their young.

The next layer, Dr. MacLean related to the early mammals and called the "limbic system" because it forms a limbus, or ring, around the reptilian brain, much like a flattened cap. This part has also been called the visceral brain and has intrigued philosophers and scientists since it has been seen as an "emotional mind" — the seat of feelings, motivation, sexuality, appetite, and smell. In the early mammals the forging of close family bonds began in this part of the brain.

Crowning it all was the neocortex. The new brain. The thinking cap of logic and language. It embraced the older parts with its own two hemispheres. Another prefrontal layer has been added to the neocortex giving the capacity for foresight.

The limbic structures have also been called the rhinencephalon, from the Greek for "nosebrain". In the animal world the rhinencephalon has been linked with memories, emotions, and instinct since it is often a smell that triggers sexual arousal and mating — or alerts an animal to the presence of danger and the need to fight or flee.

It is now known that one of the human limbic struc-

tures, the amygdala (from the Greek for "almond"), does play a part in dealing with odours and memories whether they recall the smell of pickles simmering on the stove or of rain-soaked leaves on an autumn evening.

What do today's scientists have to add to the earlier views of the brain? Today psychiatrists and other investigators, particularly those studying the limbic system, have their own medical model displacing the early empirical concepts in which the limbic structures were thought to be solely responsible for certain functions.

Dr. Peter Brawley, an associate professor at the University of Toronto, is one of the new genre of psychiatrists caring for the mentally ill with drugs — when he feels they are appropriate — that are thought to correct an imbalance in the chemistry of the brain.

You need a good stride to keep up with Peter Brawley as he walks to his office in the new Eaton Wing of the Toronto General Hospital. Lush green plants and a photograph of his two-year-old daughter give the room warmth and colour. Only the titles of the textbooks suggest he is a psychiatrist. There is no couch. No Kleenex.

Dr. Brawley has little patience with the old shibboleths, the simple philosophies about how the brain works. At the mention of the term "limbic system", for example, a fresh cloud of gray smoke billows up from his pipe. He believes this part of the brain deserves a more accurate name. "The brain can't be put into easily labelled containers. No one system works independently of the rest of the brain where there are millions of neurons dealing with incoming information and billions more processing, storing and interpreting the material."

For Dr. Brawley and other biological psychiatrists, as well as neuroscientists of all kinds, the new techniques reveal how an imbalance in the chemistry of the brain may cause mental illness. This imbalance may be relieved by chemicals such as antidepressant drugs specifically affecting the exchange of impulses between the neurons.

It was once thought that the passing of an impulse from one cell to the receptors of another happened too quickly to be a chemical process and could take place only through an electrical wave. But in 1921 Dr. Otto Loewi working at the University of Graz in Austria, showed the world that neurons have a chemical as well as an electrical component! For this he won a Nobel prize.

In 1937 the late James W. Papez, a U.S. scientist known as the "father figure" of limbic research, gave a paper suggesting that the limbic structures might be related to emotion, behaviour, and visceral activity. It

was in the same era when Freud's theories were brightening dinner conversations.

Dr. Brawley looks back on that era as "a period when we looked for a centre for everything: a centre for eating, a centre for sex, a centre for satiety." It was a concept, he says, that fitted Freud's belief that we have a superego, where the codes of conduct are laid down by the parent and "internalized" by the child; an ego; and, an id, the animal-like aspect of our natures — "the beast within". "It's a poetical concept — making one part of the brain responsible for the way we feel — a kind of physical homologue of the emotional life. It's an interesting, philosophical error and an understandable one since the western world has had a long tradition

of separating thinking from feeling. We like to think of ourselves as being able to rise above our baser instincts. But to examine the biology of our emotions, we have to look at how one part of the brain relates to another."

The limbic structures are rich in neurotransmitter activities affecting various emotions and effecting often unexpected reactions. For example, when the hippocampus (from the Greek for "sea horse" because of its shape) is faced with an exciting situation, its action is slowed down while the rest of the brain speeds up.

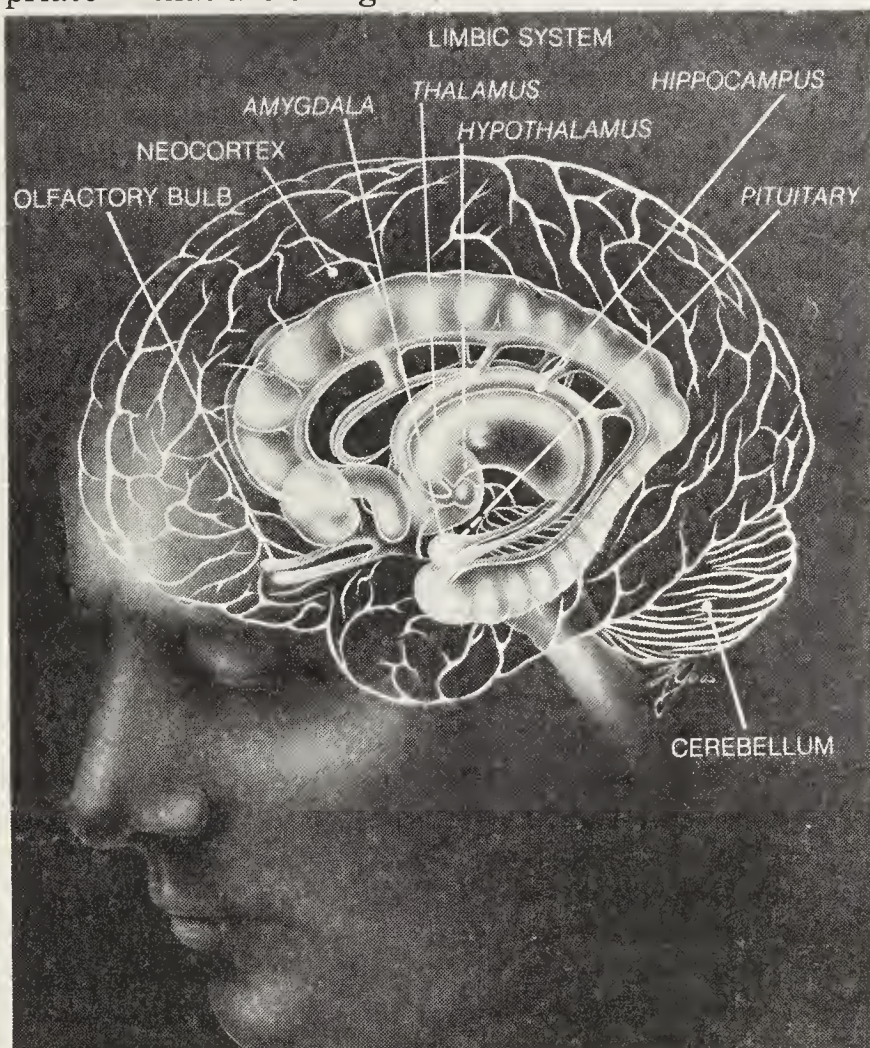
Some of the limbic-related structures have a bearing on the way we move. Dr. Philip Seeman is renowned for his role in finding a method for measuring dopamine recep-

tors in the brain and for detecting their increased numbers in schizophrenia. Dr. Seeman, professor and chairman of the Department of Pharmacology at the U of T, is particularly interested in the nucleus accumbens whose left and right halves would be crossed, he says, "if you could draw a line through the brain from one temple to the other."

As Dr. Seeman toys with a chemical model on his tidy desk he describes a study on rats in which they were very quiet during the first week of life and "peppy" during the third, a condition he found to correspond with an increase in the receptors for the transmitter dopamine in the nucleus accumbens. "In the fourth week the rats are less active and this is related to the maturing of other receptors. The differences in receptors for a lively rat or a quiet one may also be genetically controlled."

Dr. Seeman and his colleagues have found an increase in dopamine content in schizophrenic patients and a decrease in dopamine in patients with Parkinson's disease affecting their ability to walk.

A pleasantly normal mood calls for a certain balance in the teeter-totter of the neurotransmitters.



Norepinephrine, another neuron-stimulating neurotransmitter, is important in depression. If its levels are too low, depression results. If the levels are too high, the person may be manic or excited.

"Today we can use an electron microscope as well as pharmacological techniques to study the synapses to find out which receptor takes up which transmitter. We can rank-order antidepressant drugs in terms of which ones are most potent for which receptor and then increase or decrease the dosage to gain a specific effect in a given patient," says Dr. Brawley.

Some members of the medical profession — as well as patients themselves — have been reluctant to accept the new drug therapy. They are concerned that antidepressant drugs may merely hide or suppress symptoms the same way analgesics relieve pain without correcting the underlying cause. Neuroscientists and the biological psychiatrists believe, however, that the new drugs come close to correcting the underlying imbalance in the chemistry of the brain.

Hallucinogenic and psychedelic drugs also have a powerful effect on the transmitters in the limbic system. Dr. Aris Cox, a forensic psychiatrist in New Orleans, where such drugs are plentiful, especially during the annual Mardi Gras, describes their effect on the limbic system as "devastating".

Dr. Cox sees the limbic system as having dual functions. One aspect looks after emergencies that threaten survival and cause an individual to fight or flee; the other looks after ongoing survival, well-being, pleasure — as well as the rewards to be enjoyed. "The balance between these two states determines the quality of mental health the person can enjoy," says Dr. Cox.

This balance is overturned by hallucinogenic drugs, including phencyclidine, also known as "angel dust" or PCP, originally used as an anaesthetic agent for animals. "Phencyclidine makes people lose their gravitational restraints and they may try to fly. It kills awareness of pain and its users will fight and become violently impulsive. It affects the brain more than LSD and also gives a greater 'high'. It's interesting to see how closely the effects of phencyclidine mimic the symptoms of schizophrenia." Mescaline and amphetamine are believed to be chemically related to the neurotransmitter norepinephrine and they intensify its stimulating effects. LSD, on the other hand, affects the transmitter serotonin, blocking its inhibiting action.

Dr. Seeman says that even just closing the eyes changes the rhythms shown on the electroencephalogram. "But, the chemical picture of a thought

is just not available nor is it ever likely to be."

Dr. Kenneth Livingston, the immediate past chief of neurosurgery at the U of T's Wellesley Hospital, is director of the University's Limbic Mechanisms Research Group. He describes epilepsy arising from the limbic structures as opposed to the *grand mal* type characterized by a major seizure usually ending in unconsciousness. A full-blown seizure can be an alarming experience for both victim and onlooker, but epilepsy beginning in the limbic system may not be obvious to anyone else. Dr. Livingston says the person may feel unsettled in the stomach, hear strange sounds, smell peculiar odours, feel suddenly fearful, or have a *déjà vu*.

"As the attack progresses, the person loses awareness of his surroundings, although he appears conscious to others. If the seizure is followed by a period of confusion, the individual may appear angry or even become violent, perhaps only because of fear."

Some neuroscientists believe that limbic epilepsy may be accompanied by eccentric or psychotic behaviour which may even cause its victims to be either admitted to a psychiatric hospital or even put in prison!

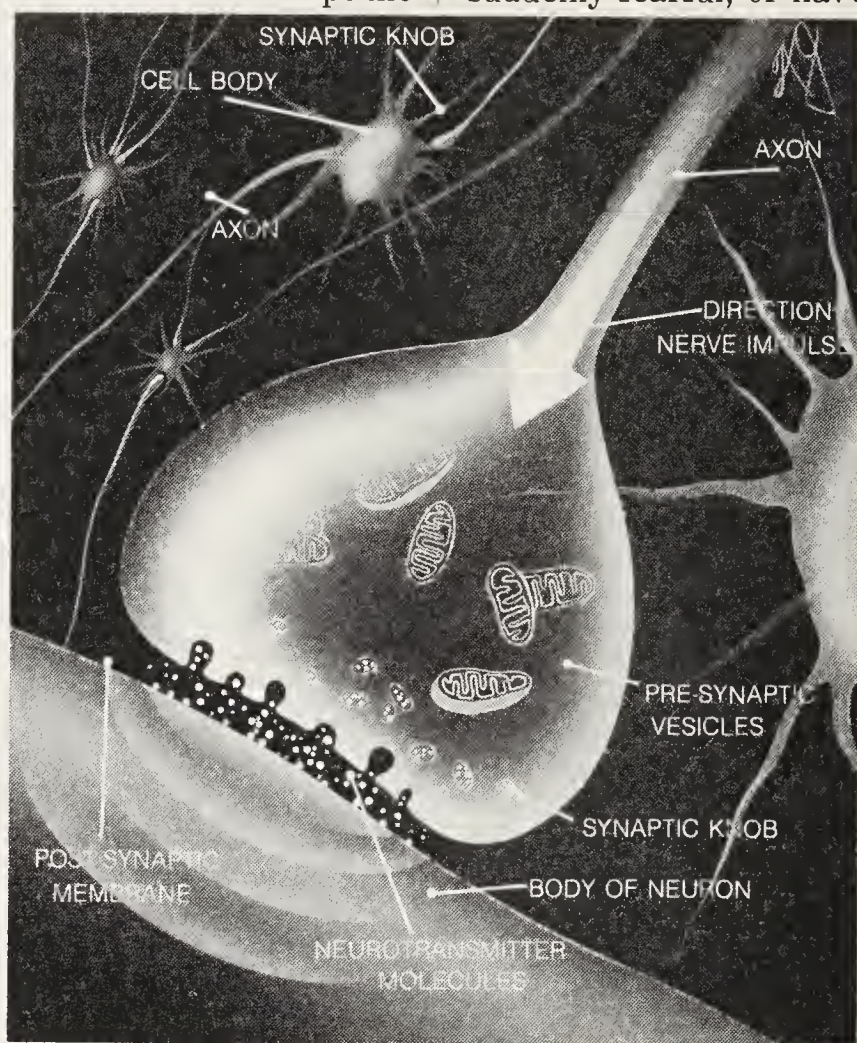
Children with limbic epilepsy, also called "partial complex seizure", are often inattentive, restless, and misunderstood. Their school work may fall behind and they often suffer at home, in society, as well as at school,

says Dr. Livingston.

Some scientists now think that the "febrile" convulsion a child may have during a high fever may be due to the brain's being already sensitized to epilepsy, possibly damaged during stress just before, during, or after birth. Alternatively, the brain may have been genetically predisposed to developing the condition. Furthermore, a child who has had febrile convulsions in infancy may have a greater chance of having epileptic seizures later.

The Toronto Limbic Mechanisms Research Group is using an experimental model of epilepsy known as "kindling" developed by Dr. Graham Goddard at McGill University. He demonstrated that a brief, mild electrical stimulus applied repeatedly to the limbic structures of the rat's brain, "kindled" a spreading excitation in the nerve cells until there was a full-scale epileptic seizure. Once seizures had occurred, the brain was irreversibly predisposed to further seizure every time the same low intensity stimulus was re-applied.

Two members of the Toronto group — Dr. Robert Adamec and Dr. Cannie Stark-Adamec — both neuroscientists, have found that repeated seizures also cause long-lasting "reorganization" in the animal's brain as



well as changes in personality.

The Adamecs, a husband and wife team, have studied cats raised in environments designed to either increase or decrease their defensive behaviour, to determine whether early experiences can modify defensiveness as well as epileptic excitability of the limbic structures.

They have found the most powerful influence to be the animals' experiences during their first two months of life. Some cats seemed genetically predisposed to be fearful. Early analysis of their limbic structures points to a difference in their susceptibility to limbic epilepsy as well as a different organization of the information flowing between the various regions, a finding which ties in with the cats' early inclination to be defensive.

Dr. Robert Adamec, using computers to "read" limbic system activity on an electroencephalogram, is developing a technique which may make it possible to identify abnormal limbic activity underlying a variety of previously undetectable epileptic disturbances, some of which appear as psychosocial disorders.

At the Clarke Institute of Psychiatry, Dr. Donald Coscina, head of biopsychology, is studying a part of the limbic system called the hypothalamus; it is closely linked to hunger, thirst and sex drive.

Dr. Coscina explains that the hypothalamus is a crossroads for many other parts of our brain. "Our studies show that if these connections are disrupted, an animal will over-eat dramatically. Once the body has gained weight, it struggles all the harder to maintain it if the food intake is decreased. In times of famine and in dieting, the body shows its powerful metabolic response against losing weight."

The person with a brain injury involving the temporal lobe, especially the hippocampus — vital in remembering recent events — may over-eat simply because he has forgotten he has just had his dinner. Damage to the amygdala, closely linked to the hypothalamus in the limbic structures, may also produce over-eating or under-eating, depending upon which part is being manipulated.

Dr. Coscina is also studying the effects of starvation on subsequent eating habits. Someone with anorexia nervosa (a syndrome of a psychogenic loss of appetite) may have gone through a number of cycles of starving and over-eating. The starvation itself may produce physiological changes that also alter behaviour.

Scientists say that at least two neurotransmitters are influenced by what we eat. Serotonin is formed within some brain cells from tryptophan, an amino acid which the brain takes from the blood stream via ingested food. Serotonin influences an activating system deep within the brain. The system is thought to help the mind focus its attention, control levels of activity throughout the entire central nervous system, and, influence the brain's state of wakefulness. Insomnia has been linked with damage to the neurons that normally secrete serotonin.

Acetylcholine, another neurotransmitter dependent on diet, is vital in conducting impulses along the nerve fibre. This neurotransmitter takes choline from the liver and from foods containing lecithin such as eggs, liver and soybeans.

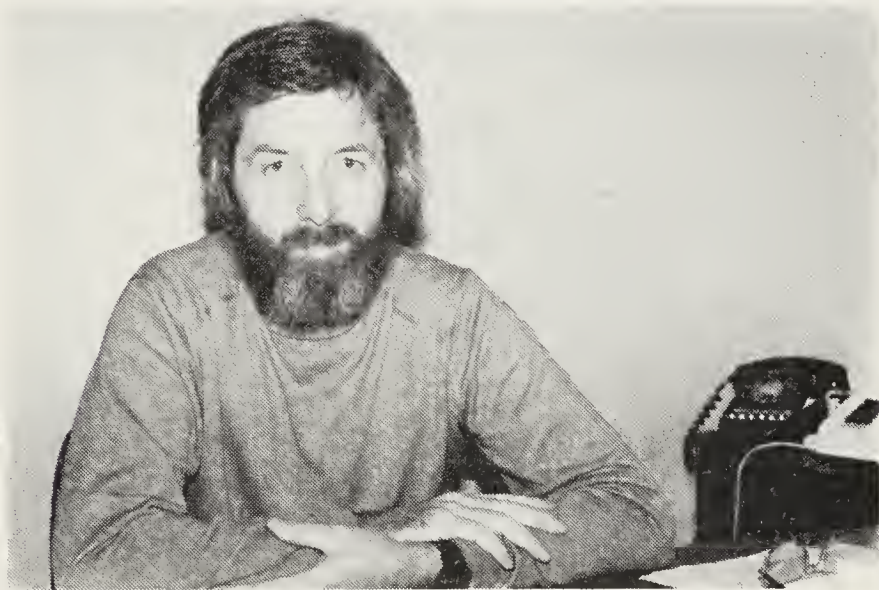
It all seems to validate the old sayings that "you are what you eat" and that "the brain sits down at the dinner table first."

More could be written in an article about the limbic system. There is the pituitary, the master gland controlling certain hormones. There are the endorphins, the brain's natural opiates. And there is more to be learned. Scientists see themselves as pathfinders on the trail through the brain's biology. They echo the thoughts of the late Sir Charles Sherrington, the renowned neuroscientist who wrote, "The scientific journey has no end. It has only halting places, points at which the traveller can look round and survey."

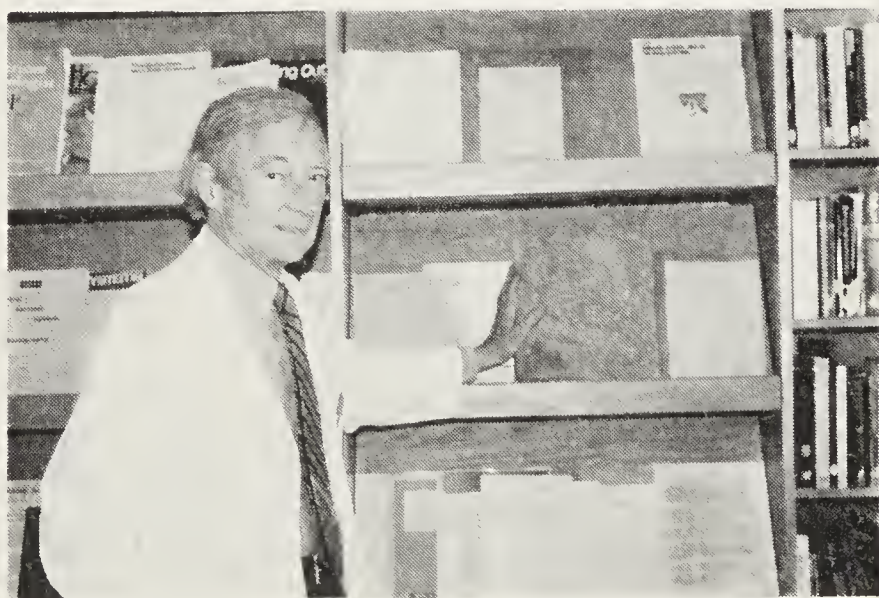
The halting place of the moment has given the mind a new view of the brain. It has taken civilization up and around another curve in a rising road to a vista which is changing our thinking. Such new vistas came into view when Copernicus showed reluctant astronomers the earth was not the centre of the universe; when Darwin placed our evolution closer to the apes than the angels; and again when Freud told us we were not entirely in control of ourselves, but were, to some degree, directed by the unconscious.

Changes of such magnitude have often dealt a blow to human conceit. And they have often been called "paradigm changes" because they have changed the investigative model for subsequent studies. One day the historians of science may add the new vistas of the brain's chemistry to the list of such changes. ■

Robbie Salter is a freelance science writer.



Dr. Peter Brawley



Dr. Kenneth Livingston

MEDIEVAL RENAISSANCE

THE MIDDLE AGES
ARE LOOKING
BETTER AND BETTER

BY JUDITH KNELMAN

PROBABLY THE THREE BEST KNOWN PRODUCTS OF the Middle Ages were, until recently, the holy grail, the fire-breathing dragon and the chastity belt. Since none of these has been particularly sought after since then, the period has not been widely studied on either the popular or the academic level. It has, of course, been of interest to Roman Catholics because the years 500-1500 take in the important period of Church dominance after the decline of pagan religions and before the Reformation. But it has generally been considered a barbaric aberration sandwiched between the classical civilization and the Renaissance, studiously ignored in the way that many of us who don't mind looking back on our childhood or early adult life avoid reliving our adolescence.

In the past decade another important product of the Middle Ages, the community knit together by a spiritual rather than a social bond, has become widely known and imitated. As our own social fabric has shown its thinness, that of the Middle Ages, when crafts guilds and monasteries flourished, has been revealing itself as surprisingly durable. Consequently there has been a boom in medieval studies at universities all over North America and nowhere more than at the University of Toronto, where the Centre for Medieval Studies has developed a reputation second to none in the world.

Toronto, it is said in international academic circles, is the place where God sends all good medievalists when they die, the reason being that He also sends many of the best medieval scholars here long *before* they die. These people have enlivened what traditionally was considered a dryas dust subject by creating a body of scholars that in many ways resembles the medieval *communitas*, where fellowship, merriment and pride of craft prevailed and people worked more for the common good than for individual gain. The 100 or so students at the medieval centre put on fairs, banquets, plays, concerts, exhibitions and conferences because they like living in each other's pockets and because they want to share their good time with the public. They take a strong hand in the running of the centre, even to determining academic requirements, and in fact voted themselves a stiff Latin prerequisite. Unlike other graduate students, they compete only on the baseball diamond, where they have for years shown themselves the best players in the student league. Despite all the fun — or perhaps because of it — they finish their degrees and find jobs. Almost



all of the 24 awarded PhDs last year have been hired to do teaching or research.

Obviously, the medieval centre is a very unusual place. For one thing, it is an interdisciplinary and rather loose organization with high standards and strong bonds. For another, it has survived the expansive '60s and shrinking '70s and still attracts large numbers of the best students from all over the world. After it began in 1964 about 50 other such centres emerged across North America, but only a few of these are still running, and none with the scope and variety of programs that U of T has. That is probably because John Leyerle was one of the good medieval scholars sent to Toronto.

In 1959, when Leyerle, who is now dean of the School of Graduate Studies, came to teach at the University of



Toronto, what little interest there was in medieval studies among faculty and students was not much in evidence. Though he had been hired to teach English, his graduate work at Harvard had been in comparative literature "because I discovered that that way allowed me much more freedom to take courses in the medieval period." Clearly, he was committed to interdisciplinary studies of the period. However, at Toronto medievalists were scattered among many disciplines and colleges, and programs were organized by subject rather than by period. Bertie Wilkinson, a distinguished historian who had been teaching at U of T since 1938, had a medieval club going, but Leyerle, a junior member of staff, was never invited to a meeting.

Not that he'd have had time to go: within a few months

of his being hired he was left as the only medievalist in the University College English department when the senior member who had brought him in went on leave. "The year is a blur — I have almost no memory of what happened then," he says now. But he did look around long enough to spot the most impressive collection of medieval scholars and manuscripts around, the Pontifical Institute of Mediaeval Studies.

The strongest focus at PIMS, as it is familiarly known, was on medieval philosophy, of particular interest to Catholic scholars, but it was also known for its broad conception of medieval training, which included the study of medieval Latin and ancient forms of writing (paleography). A medieval scholar who wanted to immerse his students in the society that produced medieval art or literature or philosophy would be more interested in such an interdisciplinary approach than in a conventional university program that immerses students in several periods of one discipline. In fact when Bertie Wilkinson came to Toronto from the University of Manchester it was partly because the institute was here. But it was not, strictly speaking, a part of the University, though it is supported by St. Michael's College, one of the University's federated colleges, and by the Basilian Fathers, who also run St. Mike's. Curiously, it has always had a higher profile in Europe, where its papal charter puts it in the tradition of the established universities founded by the papacy, than in North America.

PIMS did not have a wide range of courses or a large teaching staff, but it did have a substantial library built up since 1929, when it was founded. In the '30s, a generation before the advent of copying machines, scholars had gone from Toronto to Europe to photograph precious manuscripts with an early model 35 mm. camera fitted with portrait lenses. That instrument, which has been preserved and is on display in the PIMS library today, made possible the remote study of medieval documents, thereby entering Toronto in the league of medieval scholarship.

While John Leyerle was going to classes at Oxford and Harvard in the '50s and learning how the medieval *communitas* transcended individual and political units, students at PIMS were living the part. PIMS has always been a reminder of the medieval tradition of monks who worked, prayed and studied together. It was designed to be a residential college, and even in the '50s single students lived on the premises; those who had families lived together in a house rented for them by PIMS in the Annex, a nearby residential district, and many of the men worked as beer waiters at the Northgate Hotel, which had, says Father Michael Sheehan, a student at the time and now a professor, probably the highest number of degrees in any beverage room in North America.

If the *communitas* had by this time become rather less monastic than in its original form, neither was it the rough-and-ready male company that Leyerle, as a career naval officer in the '40s and '50s, had been used to. The wiry, ambitious, impatient and blunt-spoken Leyerle is not the sort of man one would imagine as comfortable in a world of quiet renunciation. But the *communitas* has always been an ideal of his, and he had some inkling of the dedication it can inspire from his own experience in the medieval option at Oxford, where his tutor, J.A.W.



Bennett, had treated the small group of undergraduates in his charge like respected junior colleagues. And he could see, as he surveyed the scattered offerings in medieval subjects across the various colleges and disciplines at U of T, a focal point and anchor at PIMS for a dream he had of shaping a community of young scholars of disparate backgrounds but common interests and pursuits.

Leyerle is no idle dreamer. Though he was at the time only a lowly lecturer, this was his second career: he had come through the U.S. Naval Academy at Annapolis a trained executive. He realized that if all the medieval scholars at U of T were to join forces with PIMS much could be gained on both sides. PIMS could doubtless use whatever financial assistance U of T might provide and in addition would be able to offer its students a broadened range of subjects and degrees; U of T scholars would acquire students, a location and a tradition.

With a certain amount of cheek — since he had at the time been at U of T for only eight months — he suggested a university-wide program in medieval studies to the most powerful, respected and influential professor of English in the country, A.S.P. Woodhouse, who for years had been head of the department at University College. Woodhouse was not terribly interested in the Middle Ages, having been denied a PhD by Harvard on account of an inability to pass an exam in Old English. “Fortunately, by the time I knew him he was so secure that he regarded that early calamity as a joke,” says Leyerle.

Instead of asking, as well he might, what a junior member of staff was doing making such an ambitious suggestion, Woodhouse put the idea out for discussion and was instrumental eventually in founding the centre. He called a meeting of interested parties, found that there were many, and soon handed the project over to Wilkinson, whose amiable manner fitted him perfectly for the task of finding a consensus among a group which so far had very little in common. (Only Wilkinson would have been forgiven by the professor of Islamic studies to whom he remarked jovially: “You know, I never could keep up much interest in those crusader chaps once they’d left Dover!”) Wilkinson was named director of the new centre, Leyerle became secretary in July 1963.

“Once the big wheels had got it established on an economically sound and viable basis, John went and did the marketing,” says George Rigg, the centre’s associate director. “He provided the energy.” By the winter of 1963 the centre had sprung, fully armed with students,

faculty, rules, programs and a public identity, like Athena from the head of Zeus — in this case the Pontifical Institute of Mediaeval Studies.

Anyone who has ever had anything to do with the centre credits Leyerle with its success. As secretary and then, after 1966, director, he relentlessly prodded staff and students into giving their best effort. He established the tradition of treating students like colleagues, encouraging them to write articles and speak at conferences on findings that would be of interest in the medieval world of scholarship. They were very much aware that they were going to the best place and working with the best people. He created a climate in which faculty members were stimulated and supported in large-scale research ventures like Angus Cameron’s Dictionary of Old English and Alexandra Johnston’s Records of Early English Drama, and students were motivated to enthusiastic investigation of esoteric documents in unfamiliar scripts. And though it was high-powered he made it all fun, deliberately blurring the line, in a very medieval way, between work and fellowship. The PLS play society, for example, now known formally as Poculi Ludique Societas, grew out of his class on drama and was originally short for Professor Leyerle’s Seminar. “It was the most extraordinary class that I was ever in,” says Ann Hutchison, now dean of women at University College, who watched fascinated as Leyerle put Toronto on the map by such manoeuvres as inviting the Medieval Academy here and taking the PLS to perform at a Modern Language Association meeting.

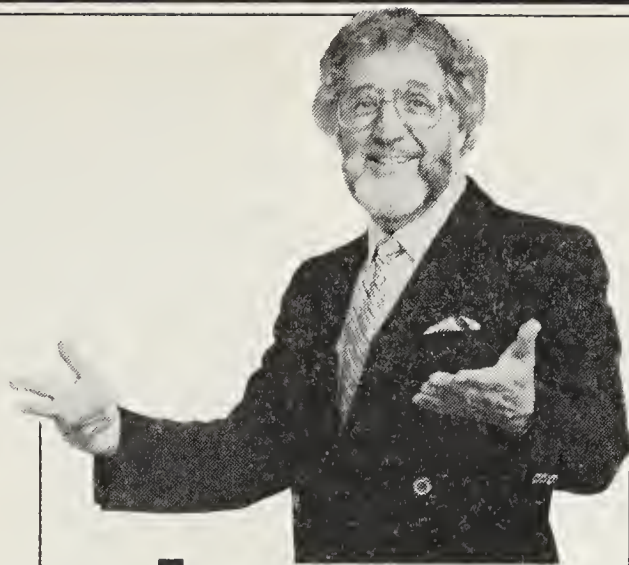
“To see Leyerle in a committee was just incredible,” a student recalls. “Even though he was not the chairman he would essentially run the meeting. People would marvel at his skill, but he managed to alienate almost everyone.”

Leyerle’s aim, however, was participative management. “In the long run and often in the short run a one-man show encounters very serious difficulties,” he says.

In the spring of 1976 a committee asked to investigate the crucial relationship between PIMS and the centre recommended that the director of the centre should be a voting member of the PIMS council. But when it turned out that to change its rules PIMS would have had to ask for special permission from the Vatican, the recommendation was not pursued. To the amazement of his faculty, Leyerle resigned abruptly a year before the end of his second term as director.

Leyerle does not discuss this period except to say that it was a difficult one for him. “I devoted 10 or 12 years of my life to the centre and saw it blossom. It’s now got a life of its own which is a great joy for me to see,” he says without a trace of rancour, though it is probably because of his insistence on the devolution of responsibility that the centre was able to continue its pace without losing step.

George Rigg became acting director, gave the students more power and smoothed ruffled feathers at PIMS. Then Norman Zacour took over as director, settling the program in as an established and vital part of the University. “John was prepared to do exactly what was needed in a time of expansion,” says Rigg. “There was money around and we could get new appointments. He would channel people and give them the enthusiasm to do what



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they were doing." The centre is continuing to do what Leyerle set it up to do, he adds, in that it has evolved to a point where quality and community make the strongest statements about medieval studies at Toronto.

Will it last? A large part of the centre's success is attributable to its appeal to the best students in the western world. Now that the Ontario government has levied a heavy fee on visa students, Europeans and Americans may think twice before enrolling in what is acknowledged to be the premier program in medieval studies. "If tuition fees go up so high that we can no longer attract students and look after them with grants and jobs, its real function will cease," Zacour says flatly. "I've seen great departments die. They die slowly, terminated on the grounds that they don't offer an immediate application to a particular social problem. Society is hell-bent on destroying the 'frivolous'."

Of course, no one at the medieval centre thinks a study of the Middle Ages frivolous. The period did, after all, produce such lasting institutions as parliament, universities and cathedrals. Yet though it laid the foundation for our own social structure, not much is yet known about the way people lived then. "Kings and queens are interesting to a certain point," says Maryanne Kowaleski, a recent graduate on her way to a promising job at Fordham University, "but 90 per cent of the people of western Europe were peasants. What were they like? It's an exciting field to be in now. Old sources are being looked at in new ways." True enough: the theme of the next annual conference at the centre, which will be held in February, is aging and the aged, a trendy topic in other areas of academic endeavour but one that has up to now been neglected by medievalists. There will be two days of lectures on how art, architecture, literature, medicine, philosophy and religion describe the position and treatment of the elderly western European population in the Middle Ages. And the public is invited. "No one wants the medieval centre to become an esoteric, isolated unit," says Zacour. "That's the kiss of death."

Medievalists are all too conscious of the cycle of the wheel of fortune, a familiar medieval image that emphasized the tendency for success to turn into adversity in the nature of things on earth. John Leyerle once wrote an article on the subject, quoting the allegorical figure Fortuna in the *Consolation of Philosophy* by Boethius: "Here is the source of my power, the game I always play: I spin my wheel and find pleasure in raising the low to a high place and lowering those who were on top. Go up, if you like, but only on condition that you will not feel abused when my sport requires your fall." If Leyerle's own wheel brought him down in 1976, when he left the centre, it has carried him up again at the School of Graduate Studies, where at 55 he has two years left to serve as dean. After that, it may be that he will deliberately take another trip down, out of administration entirely. "I wish that I had somehow managed my career so that I focused more directly on scholarly interests," he says wistfully. "I think of myself as a teacher and a scholar. The administration I do because I'm good at the creation of academic activity. I've got the same level of scholarly ideas that I have in administration." ■

THE MALCOVE COLLECTION

A PRICELESS GIFT OF
MEDIEVAL CHRISTIAN
ART IS A TRIBUTE
TO THE UNIVERSITY

BY PAMELA CORNELL

ON EAST 72ND STREET IN NEW YORK CITY IS A building whose apartments are much in demand for their brightness; yet one apartment used to be carefully shuttered so that a perpetual twilight prevailed within.

Until her death in June 1981, the occupant was Dr. Lillian Malcove Ormos, one of New York City's first Freudian psychoanalysts. The two-bedroom apartment was not only home and office to Dr. Malcove but also a repository for her extensive art collection — some 500 pieces spanning the centuries from prehistoric to modern times, with particular emphasis on medieval Christian art.

When she died at 79, she left the entire collection to the University of Toronto. Insured for about \$6 million but regarded by scholars as priceless, the Malcove collection is currently housed at St. Michael's College, in the Pontifical Institute of Mediaeval Studies. Under the terms of the will, the collection is to go on permanent loan to the Royal Ontario Museum as soon as renovations there are completed.

Not surprisingly, the bequest is the envy of other institutions. New York's Metropolitan Museum of Art, for example, had borrowed a number of the pieces in the past and hopes to be able to do so in the future.

"Some pieces we would have liked very much to have," says Margaret Frazer, curator, MMA department of medieval art and a graduate of Trinity College (art and archaeology '62). "Lillian Malcove had very good taste — what we call a good eye. She recognized quality. Her bronzes are excellent and her icons are extremely good.

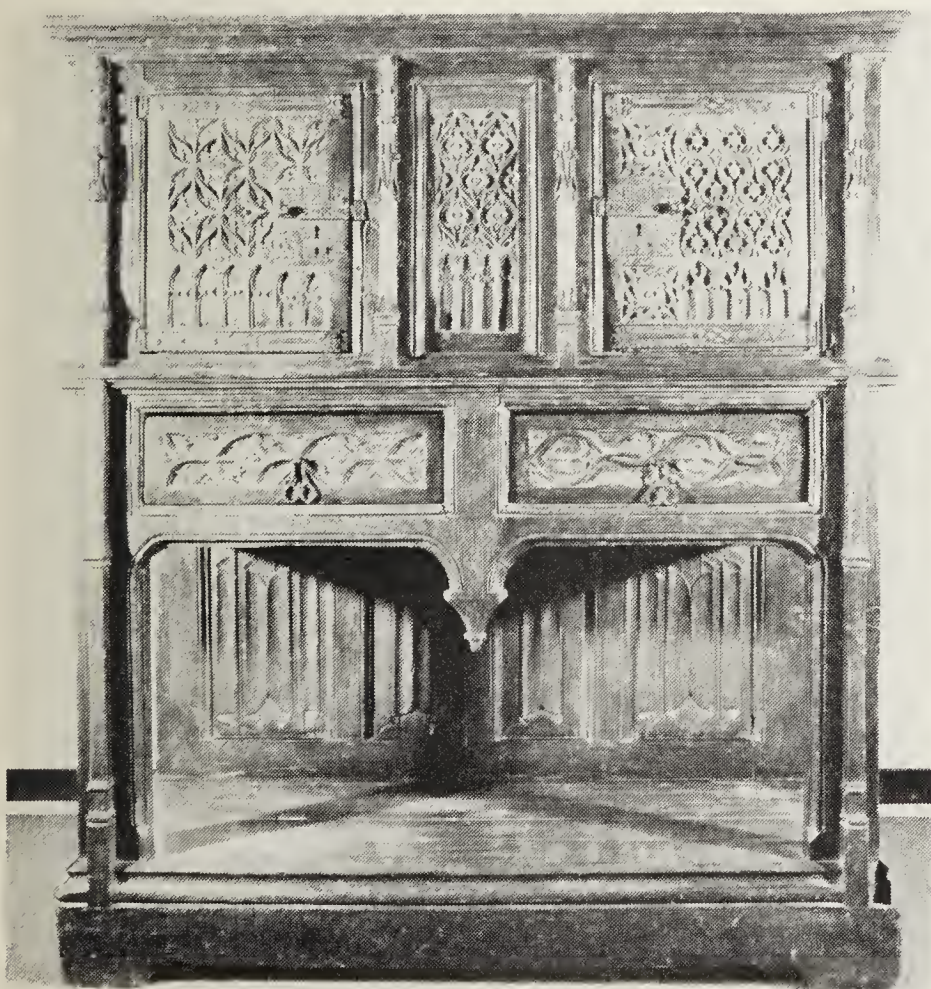
"She consulted with dealers, restorers, academics, and museum people but she wouldn't buy anything unless she loved it. Most of her pieces were small and her apartment was filled with them." Hence strictly maintained temperature and humidity levels plus shuttered windows to protect the centuries old materials and colours from being destroyed by the infrared rays of the sun.

"The apartment was cluttered," Frazer recalls, "yet not unpleasantly so because it was very personal.

"Dr. Malcove was extremely lively and enjoyable but

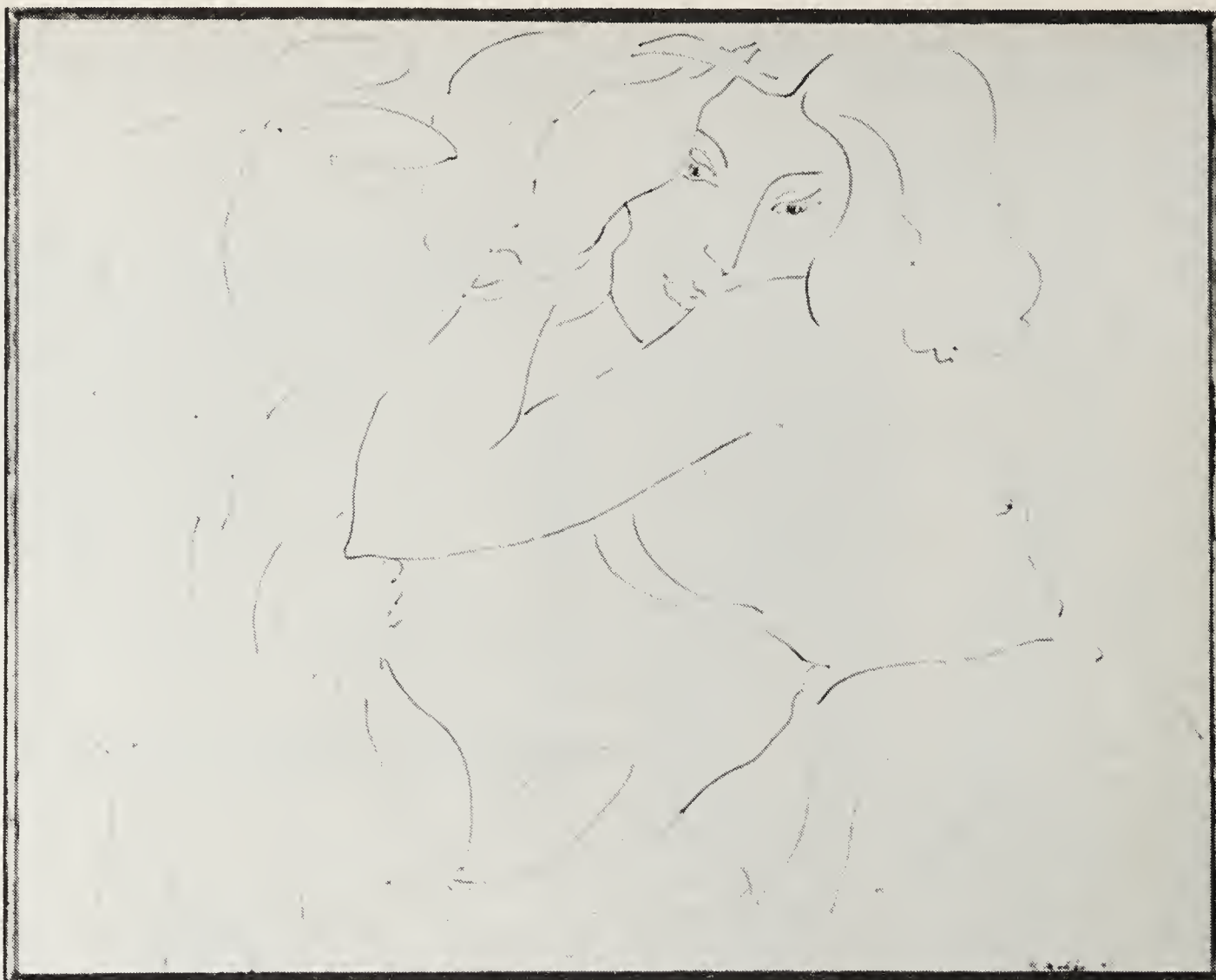


Left: Adam and Eve by Cranach the Elder, dated 1535, northern European (16" x 23 1/4")
Below: Bronze oil lamp in form of foot in sandal, cover decorated with man's head wearing head-dress, circa 4th-5th century A.D. (length 5 5/8")



Above: Oak credenza, 17th century Flemish
Right: Winged St. John the Baptist, 16th century Greek icon (19" x 32")





Girl with Large Flower by Matisse, ink drawing on paper, signed and dated 1941 (21 $\frac{1}{2}$ " x 15 $\frac{1}{4}$ ")

she never pulled her punches. She made it quite clear she wasn't going to give her collection to us. I can appreciate her point of view. Here it wouldn't have had the prominence it will at U of T. There it will be extremely important, particularly since the University has such distinguished faculty in that area."

Malcove had begun searching for a suitable recipient of her collection about seven years ago, when she discovered she had a terminal illness. Anxious that the pieces not just form a "pretty display" but be a hands-on resource for scholars, she investigated the credentials of various centres for medieval studies. She was told the University of Toronto was among the foremost.

Then there was the added advantage of the University's association with the Royal Ontario Museum, whose planned renovations would result in superb, climate-controlled facilities where the works could be both exhibited and carefully conserved.

Though Lillian Malcove lived in New York as an adult, her adolescence was spent in Manitoba. Her family had emigrated from Russia when she was about 12, to escape persecution in the pogroms against Jews.

After putting herself through medical school, Malcove went to New York for her specialized training. There she married Laszlo Ormos, a Hungarian director of documentary films. Following his early death, she began seriously collecting art, using her earnings to do so

because there was no family fortune.

Most of the pieces were purchased on her travels, before so many countries began imposing export restrictions to stop the outflow of their antiquities. Among the places she visited on her annual trips were Greece, Turkey, Japan, Russia, Scandinavia, and the Middle East.

Each item in the collection was carefully documented, with its own folder containing photographs, details of purchase and condition, as well as correspondence with scholars throughout the world. As her health deteriorated and sleep came less readily, Malcove would sit up most of the night, working to make her files as informative as possible.

The files, too, have been left to the University, along with Malcove's library of about 1,500 art and psychiatry books, and a cash residual to provide appropriate care for the bequest in perpetuity.

Medievalist Sheila Campbell, a professor of fine art and archaeology whose specialty area is early Christian and Byzantine, has been appointed curator.

Cataloguing of the pieces in the collection, in the meticulous detail necessary for scholarly research, has begun. It is estimated that this work will take three to four years to complete and when it is finished the entire collection will be given a special exhibition on the St. George campus. ■

YES, BUT WHERE IS ALL THAT MONEY COMING FROM?

AMIDST GROWING NUMBERS OF LAY-offs and bankruptcies across the country, U of T is doing some nail-biting about its own financial future.

The University community was stunned in June when arbitrator Kevin Burkett awarded an increase that will give faculty and librarians up to 18 per cent more in salaries and benefits by the end of this academic year. The award was made in three stages and has an "annualized" cost of 12 per cent, making it possible for the University to stay within the 1982-83 operating budget and giving time to make plans for dealing with the effects of the award on future budgets.

The salary raise includes a catch-up component as a move towards compensating for a 25 per cent loss in buying power over the past 11 years due to sub-inflationary settlements. This is the first time the neutral third party to negotiations has publicly stated that the faculty should not have to subsidize its employer.

In keeping with the tradition of equivalent settlements, the administration agreed to a parallel award for administrative staff.

Calling the circumstances of the arbitrator's award "traumatic", President James Ham immediately imposed a hiring freeze on all positions funded by the operating budget and established a committee to advise him on institutional strategy.

These moves, he said, will probably be followed by a reduction in administrative services, an increased number of layoffs for fiscal reasons, and a review of the rules on tenure. Between \$14 million and \$20 million must be found for salary increases in 1983-84, depending on inflation and on how big an operating grant the government provides.

"It is a matter of real concern how the University is going to continue to function," Bette Stephenson, minister of colleges and universities, said at Alumni College Day June 11.

Professor John Bossons, who teaches economics at the Institute for Policy Analysis, considers the award — with its catch-up provisions — fiscally and morally responsible. However he also regards wage controls during the current recession as "appropriate" for people with job security, among whom he includes



tenured faculty and instructors with three to five year contracts that will presumably outlast the recession.

Dean John Leyerle of the School of Graduate Studies anticipates little public support for the award. "Most professors work very hard at teaching and research," he says, "but these are self-identified tasks done according to their own lights and interest. This is a work situation enjoyed by very few people in other professions."

Political economy professor Franklyn Griffiths acknowledges that he was attracted to academic life for the freedom, not the income. "If I'd gone into this business to make money I'd have been a fool."

Professor George Rigg, associate director of the Centre for Medieval Studies, says he is paid too much. Ultimately, he says, this latest increase will hit the students, who will have larger classes and less money for fellowships.

To those who feel the award is too high, faculty association president Harvey Dyck suggests returning the catch-up component to the University. Several faculty members intend to do just that.

Among them is philosophy professor Tom Robinson, vice-dean of the School of Graduate Studies.

For the faculty association to insist on receiving more than the annual increase the University receives from the government, he says, is tantamount to cannibalizing their own institution. He thinks the argument that significant salary increases present a golden opportunity for trimming flab "would be more persuasive if the faculty association were prepared to admit that some of its own members might just constitute part of that flabbiness, and start casting a more critical eye on the hallowed system of lifetime tenure."

Professor Graeme Nicholson, a colleague of Robinson's in the philosophy department, takes a different position. "The administration should not be complaining to the media about how difficult administration is going to be. Instead they should tell the public that for years the Ontario government has been diverting money that was supposed to be funding universities. Even the federal secretary of state has stated that in public several times."

Physics professor Jim Daniels agrees. He says he's no better off as a senior professor than he was 29 years ago when he was taking home about \$370 a month. He regards the arbitrator's award as "a step in the direction of reversing the disastrous government policies which have all but ruined the higher education system of this province."

Staff association president Michael Jackel says he supported the faculty all along and does not begrudge them their award, but he is concerned that it might turn out to be at the staff's expense. "We're very vulnerable. We don't have a contract or an agreement or a union or binding arbitration."

Faculty association president Harvey Dyck acknowledges that there will have to be some kind of "sea change" in the University, but he sees it as a chance for renewed vitality.

"People love this institution deeply, but there was to be found in the faculty a sense of demoralization and grievance. There had been a marked lessening of commitment to this institution."

"Out of the award comes a sense of some strength as a faculty. We've succeeded in addressing the issue of support of universities. There's a lot of pride

around now, though we don't view this as a victory. That would suggest that somebody had been defeated."

NO MORE COOKIES

THIS WILL BE A BLEAK YEAR FOR THE Planning and Resources Committee. Tough times, tough decisions and, to make matters worse, *no more cookies*.

For six years, committee member and former chairman John Whitten has faithfully supplied an assortment of Mr. Christie's finest. But Whitten isn't on the committee any more because, in May, he was elected chairman of the Governing Council, defeating incumbent Terence Wardrop.

The longest serving member currently on Council, Whitten was an alumni member for six years before becoming a government appointee in 1980. As a member of the University Wide Committee in 1970, he helped draft the Act that created the Governing Council.

His cookies and long service make him unique but they're the least significant aspect of his role in University governance.

"John's good at planning and at seeing the implications of decisions," says alumni member Elizabeth Pearce, his successor as P & R chairman, "and he doesn't take 15 minutes to say what can be said in two."

"Perhaps his greatest strength, though, is his rapport with people. I've seen students disagreeing vigorously with him yet never wavering in their enormous respect for the man. That's because he's willing to listen to other points of view and to change his mind occasionally. He has what I would call old-fashioned integrity."

Whitten graduated with an honours degree in mechanical engineering in 1947 and taught thermodynamics at U of T the following year. He then joined Christie, Brown and Company, where he is now senior vice-president, technical services, and a director of the company. A keen sailor, he is a member of the Royal Canadian Yacht Club.

His wife, the former Jean Webster, graduated from University College in 1948 and is on the executive of the college's alumni association. The Whittens have two daughters and one grandson.

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SEARCH COMMITTEE

SUSPENSE IS MOUNTING AS THE SEARCH committee for a new President carries on its confidential deliberations. After four stressful years in office, President James Ham decided not to seek a two-year extension to take him up to retirement. Instead he will begin a sabbatical leave next July 1.

The search committee, which is to make its recommendation no later than mid-January, is headed by John Whitten, newly-elected chairman of Governing Council. Serving with him on the presidential search committee are: former Governing Council chairman Terence Wardrop and fellow government appointee Kendall Cork; alumnae Joyce Forster of University College and Elizabeth Pearce of Victoria College; Woodsworth College principal Peter Silcox, Professor John Ricker of the Faculty of Education, physics professor Kenneth McNeill, and civil engineering professor S.M. Uzumeri; student services director Eric McKee; law student Beverley Batten and recent Trinity College graduate David Grindal.

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ENGLISH PROFICIENCY

ABOUT 200 SECOND YEAR ARTS AND SCIENCE students at the St. George and Erindale campuses were refused permission to re-register this term because they have not fulfilled the English proficiency requirement. Only about 50 were visa students whose first language is not English.

"There are many coming out of our own high schools in Ontario who cannot get a clear pass," says former arts and science dean Arthur Kruger. "It gives me great cause for concern."

Lest you conclude that U of T's Faculty of Arts and Science is being unduly tough about standards of literacy, consider this excerpt from one student's English proficiency test:

"We have all heard about unidentified flying objects, there are numerous people who have actually seen U.F.O.'s. What does these space ships has, is it people animal or some form of life that is difficult for us to comprehend. The ability to know the unknown is always there with us. We have also been bombarded with objects from space.

"There are numerous fallout of objects from deep outer space that has actually fallen down on earth. We have come up empty in trying to explain what these objects are; where did they come from, and if we can expect more."

Twenty years ago, such a primitive attempt at thought and communication would have kept a student from being promoted beyond elementary school. Today we're more tolerant. The author of that paper was not only admitted to U of T but — unlike the unfortunate 200 — has been allowed to stay because that paper was deemed a "marginal pass".

Kruger admits that by a standard reasonable to most people, those marginal passes would be failures. "But if we were to impose that standard, we would have 50 per cent failing (as opposed to 20 per cent), and we don't have the remedial resources for those numbers."

The test was introduced as a requirement in first year in the fall of 1980. Students are given an hour and a half to write a 300-word essay on one of several general topics. (Our sample was from a response to the question: "Should the exploration of outer space continue?") Grading of the tests is based on coherence, organization, and proper use of the language.

Over in the Faculty of Applied Science and Engineering — where students are rarely admitted with less than an 80 per cent average — Dean Gordon Slemon shares Kruger's concerns about English proficiency. While employers are pleased with his graduates' engineering skills, he says, there have been complaints about the quality of their verbal and written presentations.

In both faculties, students are being

given opportunities to acquire the requisite skills.

OTP TO TSO

VIOLINIST ATIS BANKAS HAS BECOME THE first graduate of the Orchestral Training Program at the Royal Conservatory of Music (*The Graduate*, Jan./Feb.) to join the Toronto Symphony. He was accepted into the second violin section following a spring audition.

Bankas and his wife, Regina (also a violinist), arrived in Toronto from Lithuania in July 1981 and joined the OTP three months later. He had studied at the Conservatory of Music in Lithuania and at the Moscow Conservatory and has performed with the Lithuanian Chamber Orchestra and with the Symphony Orchestra of Lithuania as assistant concertmaster. Having spent the past year learning English and adapting to cultural differences, Bankas is now on the teaching faculty of the Royal Conservatory of Music.

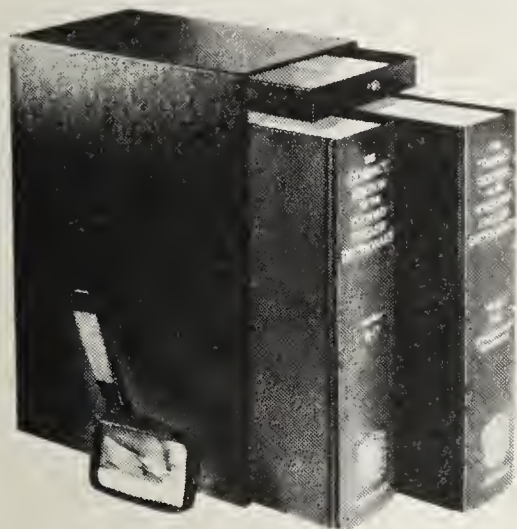
The OTP was established three years ago by Conservatory principal Ezra Schabas to provide aspiring orchestral musicians with a performance bridge between formal education and employment with a professional orchestra. Funding is provided by Canada Manpower through the Ministry of Colleges and Universities.

Sportsweek 8T2 was held from Monday the 24th to Sunday the 30th of May with bicycle races, soccer for high school students, tennis clinic for children aged 10 to 12 (below) and two races — a 10 km run with proceeds towards a heart-lung machine for Toronto Western Hospital and the 20 km Sunday Star Trek. Everyone started from the City Hall (opposite).



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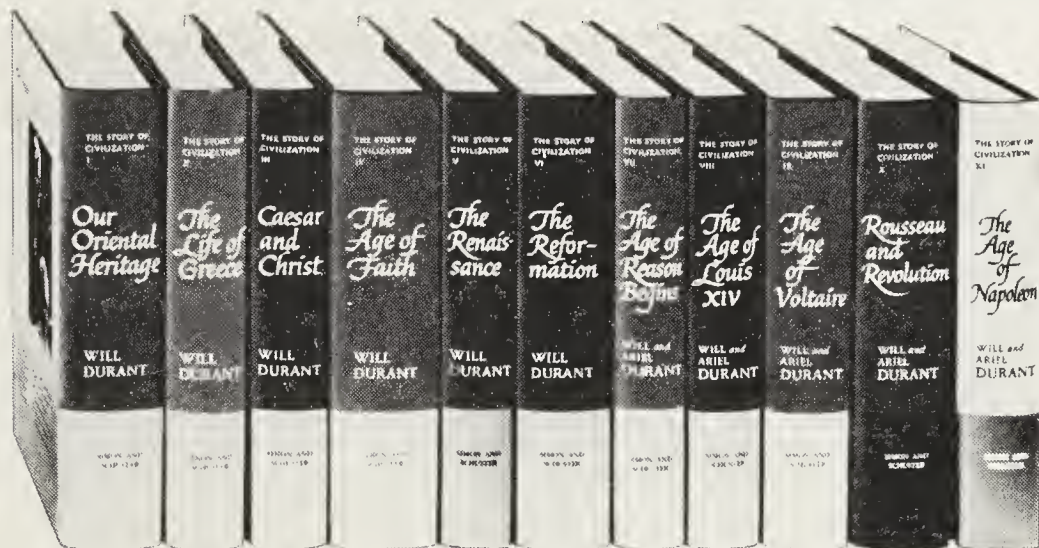
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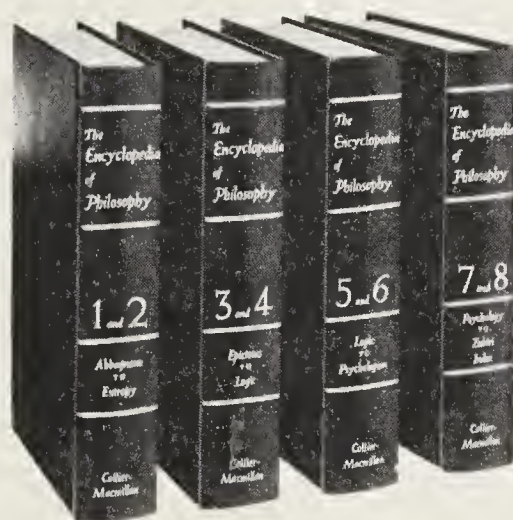
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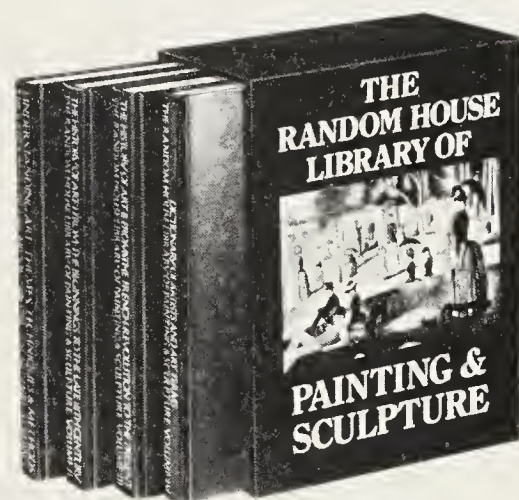
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A MAN OF MORE THAN PASSING INTEREST



IN 1931 THE FORWARD PASS — LEGAL FOR a quarter century in American football — was admitted into Canada. "The boys and girls who wear coonskin coats are getting excited," *The Varsity* remarked that autumn, predicting that the new rule would add "a little more colour, a little more pep" to the intercollegiate league. The excitement didn't last long at Toronto. The Blues lost every game but their last.

Inevitably, afterwards, talk began about getting a professional coach. Competing teams had them, and won. Varsity hadn't held the title since 1926.

The amateur coach at this time was Dr. Harry Hobbs, a veteran of the 1921 championship Blues, one of the greatest quarterbacks Varsity had ever produced. But he could devote only so many hours a week to football. Moreover he couldn't scout for, or even necessarily attract, the best players on Toronto's college and faculty teams.

Professionalism was an old issue, and its lines well drawn. Defenders of the amateur tradition argued against pursuit of the dollar and of victory at all costs. Their opponents argued that it was unfair to players to offer less than the best instruction — and that winning was, after all, important. But there were limits. Dr. W.E. Gallie, the great surgeon and a former unpaid hockey Blues coach, once described the ideal professional coach as a university graduate, a former player, a judge of men, a thoughtful analyst, a powerful driver, but above all "a gentleman, able to meet his pupils on a plane of social equality."

In March 1932, advised by a committee of sports-minded graduates, the University bit the bullet in a peculiarly Canadian way. It appointed a director of athletics who would be a full-time member of the faculty, responsible for the development of all sports, both intercollegiate and interfaculty. It happened he was an outstanding football player. U of T had a professional coach who was not a professional coach.

Warren Stevens was also the most exciting player Canadian football had seen in many a year. Though born in Canada, he had spent most of his life in the United States, and at Syracuse University had been captain of both football and baseball teams. In the fall of 1931, then a virtual

unknown, he joined the Montreal Winged Wheelers, forerunners of the Alouettes. With them, it is frequently said, he threw Canada's first legal forward pass. This is a record he often denied — but that season his were the most electrifying passes. When he came to the University, people were still talking about one he had thrown for a touchdown in the Grey Cup game against Regina — won by the Wheelers 22-0.

Stevens satisfied all Gallie's requirements. He was a gentleman, modest and courteous, quiet spoken but effective. The University rallied behind him and Hobbs (who stayed on as coach) and the Blues. They held pep rallies in front of Hart House before the team left for away games; they paraded from the back campus to the stadium, 2,000 strong, when the Blues played Queen's at home; they cheered and snake danced and sang the Blue and White. The most ardent of fans was the new president, Dr. Cody. And the Blues won — five out of six of their league games, plus the intercollegiate title. They even came close to beating the heavier and older Hamilton Tigers for the eastern championship, and with it a chance at the Grey Cup.

They still weren't very effective at forward passing; but then, neither was anyone else. They won by dominating in the old standbys, running, plunging, and kicking.

That 1932 season, exactly 50 years ago, must have been one of the biggest thrills in Stevens' career. But winning games —

and many victories and titles followed — was a small part of his service to U of T.

With "Mac" McCutcheon, he developed one of the finest intramural athletic programs in North America. This year, close to 10,000 young men and women will benefit from it.

He was also instrumental in starting in 1940 the degree program in physical and health education, the first of its kind in the Commonwealth. As Jim Proudfoot, a former sports editor of *The Varsity*, wrote in the *Toronto Star*: "He established sport as a legitimate subject for serious study at a time when the idea was still considered laughable."

Warren Stevens considered that his greatest achievement. And his greatest disappointment? That through all his time men still had to use the crowded athletic quarters built for them in Hart House in 1919. I remember sitting with him once — he was still the same weight as in his playing days a couple of decades earlier, but his waist had slipped — while he caressed coloured floor plans of a field house to be attached to Varsity Arena.

That was his dream. What would he think of the giant athletics and physical education centre opened on Spadina Avenue in 1979? He never saw it. After retiring in 1970 he moved to Australia to be near his daughter; he died there almost a year before the building was complete.

It's fitting that it should be named in his honour.

Isn't it time there was a picture of him on its walls?



ARCHITECTURE & THE FEMALE FORM (UNCLAD) UPHELD AT SPS

A GOOD MANY MOONS AGO, I WAS SITTING in the Faculty Union after a leisurely lunch — we never rushed to get there from a meeting or hurried the meal to get to another — when Prof. Rosebrugh approached me. I was president at the time and assumed he had something on his mind about the Union.

Instead, he was greatly concerned to learn that for several years we had had a life class once a week where a nude woman would stand or sit for my students to sketch. He was taking the matter to the Board of Governors who were obviously as ignorant of such goings on as himself.

A little later, I realized it was life class day so I asked Rosebrugh if he would like to see the class in action. He demurred, but, finally, came to the conclusion, as he said, that a visit would give him more ammunition for the governors.

We arrived to find a shivering little model in a kimono sitting on a chair on a dais in a large room in S.P.S. When I asked why the troops were not there, she said one had come down (obviously a gentleman) to say they had a deadline to finish the design of a factory they were doing for me. Rosebrugh asked her to repeat as I am sure he thought it odd that so dreary a topic would keep them away from so alluring a subject as a female model.

I went upstairs and read the riot act which brought the class down along with the instructor who had been having a nap. The girl stood stark on the stage and students, boys and girls (it shocked R. to know it was a mixed class), placed their easels for whatever view of her appealed to them.

I stayed to give the Professor of Electrical Engineering comfort by my presence as a colleague.

He walked between the easels for five or six minutes, and then signalled to me that he would like a private corner of the room where we could talk.

"Arthur," he said, "I find it strange that more than half the class are drawing her feet."

"Well," I replied, "these are young architects and the structure of the foot is of tremendous interest to them." I didn't spoil it by saying that on other days there might be quite different areas of the

female form that would attract their attention.

I wasn't given the satisfaction of hearing from him that he was not going to appear before the governors, but a few weeks later he did and a great cloud was lifted from over department number four of the School of Practical Science and we could relax.

*Eric Arthur, C.C., M.A., LL.D.,
FRAIC, FRIBA, RCA
Toronto*

I read with interest the letter in your May/June 1982 issue from Sidney T. Fisher entitled, "Nuclear Hazards Come With Hydrogen".

It is true that hydrogen is not a source of energy but only a means of storing and/or transporting energy. It is also true that hydrogen may be produced through the consumption of electricity, but it is not true, as Mr. Fisher states, that hydrogen is being used to justify the continuation and expansion of nuclear power.

The demand for electricity is highly variable on an annual and even on a daily basis. Sufficient electrical generating capacity must be constructed to meet peak demands, but this means that for much of the time during off-peak periods some generating capacity is lying idle. Any scheme to utilize this idle capacity in an economic manner is worthy of attention.

Both nuclear and hydro plants are capital intensive, but fuelling costs in both cases are comparatively small. Coal-fired plants are less expensive to construct, but the cost of fuel is much greater. In the Ontario Hydro generating system, this results in the unit cost of nuclear and hydro electricity being about half the cost of coal generated electricity. Because of this, nuclear and hydro plants are both used to generate base-load electricity, but there are still periods when their capacity is not being fully utilized. Given high capital charges and low running costs,

either or both of these systems could be used to produce hydrogen during off-peak periods with only small incremental costs. It is for this reason that the production of hydrogen as a fuel looks attractive. It would not look so economically attractive if generating capacity had to be built solely to produce hydrogen.

However, Mr. Fisher appears to object to the use of nuclear power for any purpose on the grounds that it is too hazardous.

The Candu reactor system has been operating in Canada since 1962. There have been no injuries or fatalities to the operators or members of the public. The possibility of an accident is considered remote. This view of reactor safety has been supported by two major inquiries into nuclear power which have been held in Ontario, the Royal Commission on Electric Power Planning in Ontario (Porter Commission) and the Select Committee on Ontario Hydro Affairs (an Ontario parliamentary committee).

Nuclear plants in the world have accumulated over 2,000 reactor-years of experience without a single fatality. Even the accident at Three Mile Island resulted in no injuries or deaths. In fact the Kemeny Commission set up by President Carter to examine the effects of Three Mile Island reported that the psychological health effects due to fear of radiation were greater than adverse health effects due to the radiation itself.

The disposal of waste reactor fuel is being examined by Atomic Energy of Canada Ltd. under the terms of a 1978 agreement between Canada and Ontario. A concept for the disposal of high-level waste in a deep underground rock depository is being developed in which the waste would be isolated by a combination of engineered and natural geologic barriers. Preliminary results from the program indicate that the individual exposure from any radioactivity that might eventually be released by a fuel waste repository will be much less than that due to the natural background radiation.

Irradiated nuclear fuel can be stored cheaply, safely, and reliably at reactor sites for many decades. Research on nuclear waste disposal is much more advanced than that for many other industrial wastes which are more prob-

Letters may be edited to fit available space and should be addressed: Graduate Letters, Department of Information Services, University of Toronto, Toronto, M5S 1A1.

lematic. The nuclear industry may well come to serve as a model of concern and foresight in its present approach to waste management.

Spent fuel has been shipped from the research reactors at Chalk River to the USA for thirty years without incident, and the design of shipping flasks is already at an advanced stage such that normal transportation collisions and the fires which may result from them will not compromise the integrity of the flasks.

Decommissioning of reactors will be an economic industrial problem not substantially different from that faced by many other industries. There has been enough experience with decommissioning in the world to demonstrate that it can be done without exotic new technologies.

The government's continued support of the use of nuclear power has been made with a full realization of the possible health hazards and economics involved. It is our opinion that nuclear power provides an acceptably safe and economically attractive source of electrical generation. If nuclear power can contribute towards the production of hydrogen as an alternative fuel, so much the better.

With best wishes and kind regards.

*Hon. Marc Lalonde
Minister of Energy, Mines and Resources
Ottawa*

I would find it easier to share Professor Scott's enthusiasm for hydrogen as a fuel of the future (March/April) if his envisaged method of extracting hydrogen from water utilized a renewable, safe, non-polluting technology. His proposal to use electrical energy generated from nuclear reactors doesn't fit any of these criteria.

If we were looking, as the Swedes are, at a long-range scheme to obtain hydrogen using solar energy as the prime energy source, then this would be a more commendable route to follow.

In the short range the most likely and promising liquid fuel is to be found in the production of alcohols. Huge quantities of methanol could even now be produced from wood waste being left in the woods by the forest industry. Fuel from this source could be obtained at a fraction of the capital cost and would have the added advantage of assisting Canada's most important industry in becoming more cost effective at a time when our forest industry could most benefit from a helping hand.

*Norman Sloane
(Forestry 4T9)
Sault Ste Marie*

In Campus News, May/June, Dean Slemon is quoted as saying that "U of T can't turn its back on relations with universities in other countries because it doesn't agree with their governments." President Ham is quoted as saying that no human rights clause is necessary.

In December 1981 Canada ratified the United Nations convention on the elimination of all forms of discrimination against women. In order to do this, the federal government was required to obtain the agreement of all the provinces to uphold the convention. Therefore, the province of Ontario has at least a moral obligation not to take actions which contravene this convention.

The agreement between the U of T and King Saud University contravenes the convention's article 10 which spells out the education rights of women, particularly their right to have access to equal educational opportunities with men.

The National Action Committee on the Status of Women has written to the attorney-general of Ontario and the chairman of the Ontario Human Rights Commission protesting this agreement between the two universities and urging an

investigation into its terms.

If the Governing Council of the University is planning to draw up guidelines for agreements with foreign institutions in the future, I suggest it will need to review its country's international commitments as part of the exercise.

*Janice J. Tait
Ottawa*

I would like to comment on the Campus News column of May/June concerning the deal between King Saud University and the University of Toronto. I believe that the issue involved has very deep significance.

Somehow Gordon Slemon justifies the agreement on the basis that academia, i.e. a university, is above politics. However, the real world says otherwise. When Hitler went on his rampage, university professors marched to the death camps shoulder to shoulder with rubbish collectors, carpenters and plumbers.

The basic fact is that academics are part of the general population and must get involved with politics if we are to survive. It seems to me that professors are involved intimately with politics anyway. Don't they vote in elections on all sorts of issues and don't they freely give their opinions on all sorts of political matters?

It is amazing to me how intellectuals can rationalize away principles when it comes to money.

*Donald Rosman
Los Angeles*

The editorial on the carillon was full of interest, especially as my secretarial office for many years was a veritable ringside seat on the second floor in the part of U.C. presently being renovated.

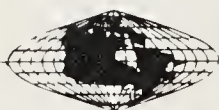
Many times I went up into the tower and watched the original carillonneur, Leland Richardson, make beautiful har-

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monious sounds at that odd keyboard. He never used music. One time we climbed up those 100 steps together and he prepared his evening program by going through a box of cards and picking out a few titles. On the rack in front of him he put his cards and little bottle of heart pills. He was determined to keep on with his work — and did, for 35 years, I think.

Sylvia M. Hvidsten 3T8
Toronto

Your readers may be interested in knowing that the carillon referred to in the May/June issue as "next door to St. Michael's Hospital" is in the tower of Metropolitan United Church. Both Andrea McCrady and Heather Spry play it on occasion, most recently for the 60th anniversary of these bells. In fact Heather's early exposure to carillons was at Metropolitan where she was coached by James Slater.

This carillon is not only the oldest in North America but also one of the largest in Canada with 54 bells. Leland Richardson, the first carillonneur at Hart House, was the carillonneur at Metropolitan when he took over that assignment.

On Sundays between 10.30 and 11 a.m. the Metropolitan bells can be heard pealing forth marvellous music played by James Slater who is celebrating his 20th year as carillonneur there. This Sunday concert is biannually enjoyed by Victoria College graduates and their families prior to the baccalaureate services which are traditionally held in this church.

Harriet B.H. Smith
Toronto

This letter and cheque are long overdue. They are sent in appreciation of both the continuing excellence of *The Graduate* and of word concerning A.V. Jopling (Yukon Man, March/April). Professor Jopling instructed many of the geography and geomorphology courses I took while at U of T. He, along with all of the professors in the Department of Geography, made my university career worthwhile.

Jenny Braus
Golden, Colorado

Readers of *The Graduate* are invited to become members of the Jane Austen Society of North America; annual dues are \$10. Anyone interested in the society, which will hold its annual meeting in Toronto in October, should get in touch with Mrs. Donald Millard, 31 Green Valley Road, Willowdale, M2P 1A4.

Eileen Morris
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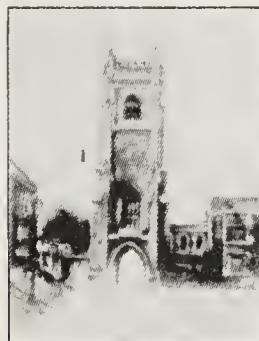


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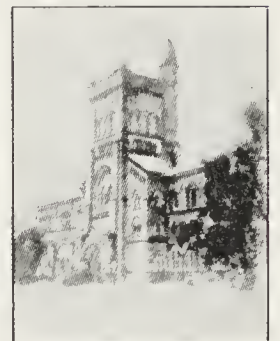
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JOHN WHITTEN ELECTED CHAIRMAN OF COUNCIL



THE ELECTION OF JOHN WHITTEN OF Engineering 4T7 as chairman of the Governing Council of the University of Toronto is of particular interest to alumni. An active alumnus in his own faculty's association, John also served as its representative to UTAA. He was elected UTAA's first vice-president university governance and was, therefore, the first chairman of the Electoral College which elects the University's eight alumni governors and the chancellor. After his own subsequent election to the council, John served two terms (six years) as an alumni governor before accepting a third term as a government appointee. With this transfer he became eligible to stand for chairman, an office which must be filled from among the 16 government appointees. John has already proved himself an outstandingly able chairman of the Planning and Resources Committee and the Executive Committee and members of Governing Council are looking forward to a productive year.

HOME FOR A HOLIDAY

THE ANNUAL SPRING REUNION ATTRACTED enthusiastic participation from alumni of 25, 40 and 50-plus years ago. It was held a week later this year — second weekend in June instead of the first — to coincide with the opening of the rebuilt Sandford Fleming Building. Engineering alumni made a substantial contribution to the rebuilding fund, set up after the disastrous fire of 1977. Engineers and other alumni were on hand in force for the formal re-opening on Saturday, June 12 and the tours of the building that followed. Architectural purists will be pleased to know that, although an extra floor has been added, the building's classic facade remains essentially unaltered. In addition to these special events and the traditional Hart House luncheon and afternoon reception at the home of President and Mrs. Ham, almost every constituency sponsored special events including dinners, receptions, cocktail parties and annual meetings.

EXPANDING SUPPORT FOR ALUMNI

THERE WAS A TIME WHEN A MODEST STAFF at Alumni House could provide all the support services required for alumni activity at U of T. Even without the crippling budget cuts of the past few years, director of alumni affairs Bert Pinnington points out that a completely centralized alumni operation would no longer be adequate for the many activities and increasingly active fund-raising programs of the larger associations.

Meds, Trinity, St. Mike's, Vic and, more recently, U.C. have already established alumni offices. Now Dean Gordon Slemon of Engineering has announced the appointment of alumnus Malcolm McGrath (5T8) as assistant to the dean, alumni liaison.

Mal's appointment is part of a series of faculty initiatives (most notable, the student's overwhelming support for a \$100 increase in their incidental fees) which are designed to bridge the gap between faculty needs and faculty budget. Current students are finding that a first-rate pro-

gram taught by first-rate faculty is often dependent on equipment that might better be in a museum than in the country's foremost engineering school.

A BIG DAY FOR VARSITY

THE COUNCIL FOR ADVANCEMENT AND Support of Education (CASE) is an international organization devoted to the professional concerns of alumni and development officers. This year its annual convention was held at the Sheraton Hotel in Toronto in July and when it was over U of T had every reason to glow with pride. The closing luncheon on July 15 was the occasion for a presentation of awards to two distinguished Canadians who are also distinguished alumni.

The first award, the 1982 Ernest T. Stewart award for alumni service, went to the Hon. Pauline McGibbon, first woman president of UTAA, first woman chancellor of the University and first woman lieutenant-governor of Ontario.



Mrs. McGibbon is currently chancellor of the University of Guelph and chairman of the National Arts Centre in Ottawa. Victoria has particular reason to be proud of its exceptional alumna since she began her career of alumni service with her home association. Mrs. McGibbon was introduced to the convention by Donald F. Forster, president of the University of Guelph and a graduate of the class of 5T6 who was U of T's provost before his appointment to Guelph.

The second award of note was to Thomas H.B. Symons who won the 1982 award for distinguished service to higher education. Professor Symons was, of course, the founding president of Trent University and a graduate of U of T in 1941. He is currently Vanier Professor at Trent. J. Mavor Moore, U.C. 4T1, chairman of the Canada Council, introduced Professor Symons.

NEW SENIOR ALUMNI EXECUTIVE

THE 100 SENIOR ALUMNI WHO ATTENDED the annual meeting of the association held in conjunction with Recognition Day have elected the following executive for the coming year: chairman, Gordon Romans (Dr. Romans is a Vic alumnus, president in 1959 of UTAA and currently an alumni governor); co-chairmen, Mary Coburn and Hiles Carter; secretary, Olive Gordon; co-secretary, Bill Goddard; treasurer, Bob Saunders; co-treasurer, Harold Aggett; members-at-large, Bob Burton, Louise Jamieson and immediate past president of the UTAA, Jim Joyce.

The Senior Alumni Association provides back-up for each of its executive positions to make provision for travels north in the summer, south in the winter and to every corner of the world during the year. Our senior alumni are perpetually on the go.

ON THE ROAD

U of T'S VICE-PRESIDENT, INSTITUTIONAL relations, Donald Ivey, made a rapid swing through the branches in May. On his itinerary: an informal dinner at the Glencoe Club in Calgary organized by the Rev. Canon John Flagler of Calgary Branch and a wine and cheese party for which Gayle Johnson was ticket convenor



Miss Linda Mahon retired this spring after 54 years at U of T. She and Dr. Reginald Haist, professor emeritus of physiology, Dr. Albert Fisher, former director of Connaught Laboratories, and Dr. Donald Fraser, Research Institute Hospital for Sick Children, look at a picture taken when she first came to U of T as secretary to Dr. Charles Best.

for London Branch. Professor Ivey's topic in London was "Why University Lectures?" and as a full lecture schedule is under way again this fall it is assumed that all agreed they were a good idea. Judith Epstein was ticket convenor for Edmonton Branch's wine and cheese at which members were brought up-to-date on the current state of the University.

Other ambassadors have included the Hart House Chorus under conductor John Tuttle who were in Philadelphia singing for local alumni on May 13 and at St. Paul's Chapel of Columbia under the auspices of New York Branch on the 15th. California Branch participated in the annual All-Canadian Universities Alumni dinner at the Engineers Club in San Francisco on June 24 when the guest speaker was James J. McCardle (St. Mike's 4T3), consul-general for Canada in San Francisco.

CASE CONFOUNDED

THE ACCOMPLISHMENTS OF OUR SENIOR Alumni Association were a subject for praise and envy at the CASE international conference held in Toronto July 11-15. Senior alumni provided 50

volunteer workers for the five-day convention. Glenna Sims and Jane Moffatt of Alumni House were in charge of coordinating and training these and 24 volunteers from local university women's clubs and 14 more from our Young Alumni Association. Their thorough planning, including an extensive pre-conference orientation and briefing session, and the competent efficiency of their troops provoked nothing but praise.

More praise was heaped on the workshop on senior alumni programs run by Hiles and Mary Carter. It was a revelation to many U.S. alumni and development officers who gave them a well-deserved standing ovation.

ALUMNI FACES IN NEW PLACES

THE BEDEL, ESQUIRE BEDELS, AND MARSHALS have a place in the Convocation procession and ceremony that is hallowed by tradition. This year, Chancellor George Ignatieff issued an invitation to all alumni to volunteer for these important positions. Alumni responded with enthusiasm and it would appear a new tradition, confirming the importance of alumni participation in all areas of University life, has been established.

CHANGING THE GUARD

AND EXPECTED TO DO A BETTER JOB THAN those at Buckingham Palace. The University of Toronto Alumni Association (UTAA) held its annual meeting and election of new officers on May 18. On guard



Immersion in France

The University of Tours in the fabulous Chateaux Country offers one month language courses for beginners to advanced students of French. Afternoons are free to enjoy faculty-conducted excursions in the beautiful Loire Valley, Brittany, Normandy, etc.

Our low rate includes scheduled return flights to Paris, university residence accommodation, most meals, tuition, group transfers from Paris!

Departures on June 30, July 30 and August 30.

Inclusive prices from

Toronto, Montreal, Halifax	\$1898.00
Western Canada cities	\$2198.00

Immersion in Spain

One month courses in Spanish at the Centro de Espanol for beginning to advanced students of Spanish. To enhance learning, accommodation is with a Spanish family and includes three meals daily. Tuition, transfers and return flight to Malaga are also included in this low price.

Departures on June 30, July 30 and August 30

Inclusive prices from

Toronto, Montreal, Halifax	\$1898.00
Western Canada cities	\$2198.00

Immersion in Germany

One month German language courses in Bonn, Germany. Details available upon request.

Toronto, Montreal, Halifax	\$1898.00
Western Canada cities	\$2198.00

Departure dates available upon request.

Regular monthly departures now available throughout the winter at special rates! Call or write for full details

Ship's School Educational Tours Ltd.

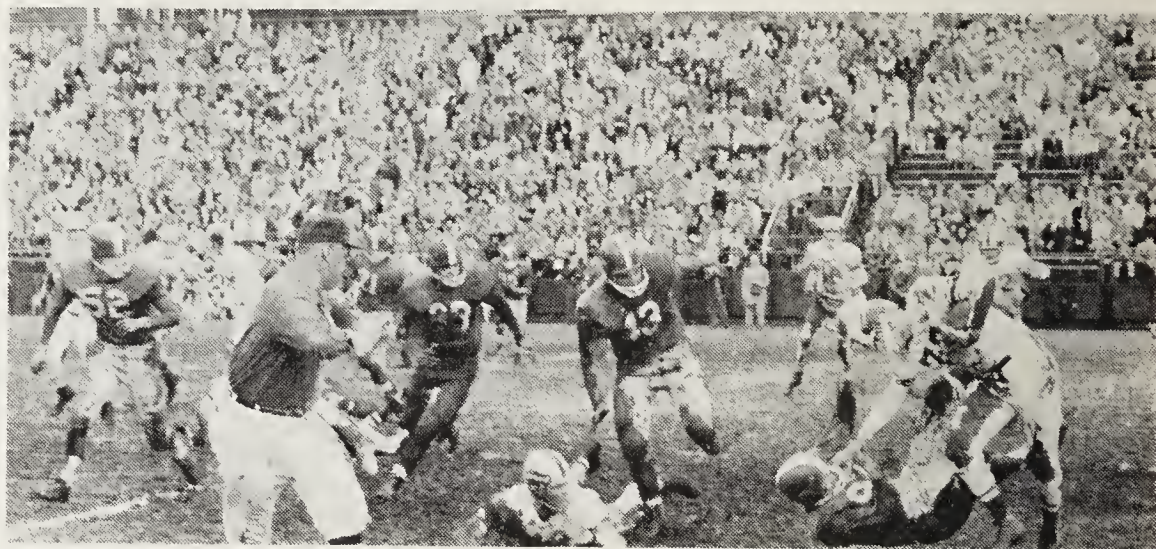
95 Dalhousie St., Brantford, Ont.

N3T 2J1 Tel: (519) 756-4900

for the next year are: past president, James Joyce, U.C. 3T4; president, Ed Kerwin, St. Mike's 6T8; vice-president university governance, Joe Potts, U.C. 4T9 (this position means that Mr. Justice Potts will also chair the Electoral College); vice-president planning, Ruth Davis, Meds 5T1; vice-president fund raising, Ted Wilson, Forestry 5T9; treasurer, Harold Forbes, Bus. Cert. 6T4; assistant treasurer, Annita Wilson, U.C. 5T2; secretary, Joanne Uyede, Innis 6T9; assistant secretary and president elect, Joan Johnston, St. Mike's 6T8.

MONEY WELL SPENT

CONVOCATION HALL WAS THE GIFT OF alumni of the University of Toronto and has always had a special place in alumni affections. In recent years UTAA has funded the upgrading of the hall's sound system. At its April meeting UTAA made another modest, but much needed, donation of \$4,000 toward renovation of washroom facilities to accommodate the handicapped.



Where are they now?

The University tries to keep in touch with its alumni for a variety of reasons, for example, to ensure that they receive *The Graduate*. However, we have lost contact with many of them because we do not have their *current addresses*. If you know the whereabouts of anyone on the following list, could you please send the information to Alumni Records, 47 Willcocks St., University of Toronto, Toronto, M5S 1A1, or telephone 978-2139. Your assistance will be appreciated.

St. Michael's College

Thomas R. Ahearn, BA (55)

Trinity College

Judith T. Connor, née Addison, BA (66)

University College

Jack A. Ahlsten, BA (69)

Gertrude Glasser, née Acker, BA (34)

Victoria College

Elizabeth J. Buckley, née Adams, BA (43)

Edna A. Cunningham, née Agnew, BA (42)

School of Graduate Studies

Amin U. Ahmed, PhD (67)

Mofassel U. Ahmed, MA (55)

Syed I. Ahmed, PhD (64)

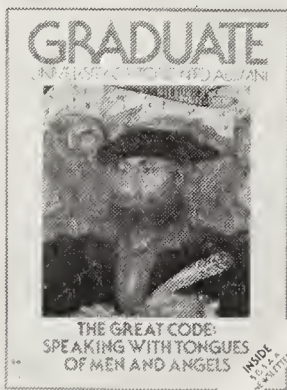
Kenneth G. Ahronson, MEd (71)

Faculty of Management Studies

Hasain P. Ahmed, MBA (69)

Gerald T. Aho, MBA (70)

We would like to thank all who answer these requests. We are grateful for your help.



THANK YOU!

to the many readers who responded to our invitation to become voluntary subscribers to *The Graduate*. To those who intended and forgot, the invitation is still open. Send \$10 to The Graduate, Department of Information Services, University of Toronto, Toronto M5S 1A1 and mark it voluntary subscription.

TADDLE CREEK UPDATE

EVERY EFFORT IS MADE TO ACKNOWLEDGE all Taddle Creek Society members, donors of between \$300 and \$999 to the University of Toronto. However, because of the size and complexity of the University, it is possible that some donors can go unrecognized.

The following names were omitted inadvertently from the list of 1981 members published in the May/June issue. The names of anonymous donors and those who have increased their giving to the level of Presidents' Committee are not listed.

The numbers now are even more impressive. In 1981, 600 people were eligible for Taddle Creek Society membership, a 50 per cent increase over the 1980 membership of 397.

Right Rev. Neville M. Anderson, Dr. Leslie Robert Angus, A. Edward Archibald, Robert J. Armstrong, Dr. Theodore W. Avruskin.

Albert M. Baldwin, James C.U. Bayly, Shirley Joyce Beelik, W. John Bennett, Maureen Ignatia Berry, Wanda A.C. Bielawski, J. Reginald Bolger, Lucille M.M. Bonin, James D.B. Bromley, Frank

C. Buckley, W. Frank Buckley, J. Edward Burns.

Sally J. Creighton, Eileen M.T. Crothers, Walter Curlook.

George A. Delhomme, Richard F. Donnelly, Anne Marie Doyle, Muriel C.M. Doyle, Christopher K. Driscoll, His Hon. Judge Frank E.B. Dunlap, Prof. William B. Dunphy.

L. Nelson Earl, Mary A. Egan, Leslie E. Elliott.

Dr. Ross C. Fisk, John J. Fitzpatrick, John F. Flowers, William J. Foran, Dr. Hugh H.G. Fraser.

Rev. T.J. Gallagher, Dr. Margaret D. Gleason, Carman Byron Guild, Helen Gurney.

Right Rev. J. Gerald Hanley, Edward R. Hoover, His Hon. Judge Bernard W. Hurley.

Thomas E. Jarvis.

Steve W. Karrys, James J. Kavanagh, Hon. Arthur Kelly, Edward P.D. Kerwin, Marianna Korman.

J. Malcolm L. Landon, Arthur N. Langford, William E. Lee, Prof. Lawrence E.M. Lynch, Mervyn A. Lynch, Mrs. W.J. Lyons.

John W. MacDonald, Prof. C. Brough Macpherson, Mary F. Mallon, S. Eleanor McBride, Donald F. McDonald, Rev. George P. McKinney, W. Basil McLaughlin, Julia M. McLaughlin,

MacKenzie McMurray, Rev. Thomas G. Melady, Murray A. Mogan, Peter J. Moloney, Edward J. Monahan, Eleanor Agnes Monahan.

Dr. Grant W. Nadon.

Rev. R.T. William O'Brien, Thomas C. O'Connor, M. Geraldine O'Meara, John J.M. O'Neill, Prof. Mariel P. O'Neill-Karch, William M.T. O'Reilly, Michael O. O'Sullivan.

Dr. Mario Palermo, William H. Palm, Sandra Diane Pett, Paul J. Phoenix, E.B.M. Pinnington, Dr. Christopher Pinto, Kathleen Pinto, Rev. Edwin J.A. Platt.

Gertrude J. Quinlan.

F. Vincent Regan, Thomas F. Roe, Donald H. Rogers, Dr. Edward J.J. Rzakdi.

Nicholas F. Scandiffio, Prof. Arthur Leonard Schawlow, Henry E.C. Schulman, David F.L. Scollard, His Hon. Judge William J. Shea, Most Rev. John M. Sherlock, Charles E. Short, Amy E. Stewart, Sophia M. Stockwell, Frederick C. Stokes, C. Burke Swan, Dr. Harry T. Sweeney, Dr. James B. Sweeney.

John B. Tinker, W.I.M. Turner Sr.

Jean M.L. Vale, W. Alan T. Van Every.

Flora M. Ward, G. Bernard Weiler, Margaret L. Whyte, Wilhelmina M. Wiacek, Joseph D. Williams, John C. Wilson, Dr. George E. Wodehouse. ■

THE LAW ALUMNI ASSOCIATION

University of Toronto

is very pleased to invite you to attend

THE FIRST LAW ALUMNI DINNER

and to join us

in the presentation of

The First Distinguished Alumnus Award

to

The Right Honourable Bora Laskin, Chief Justice of Canada

BA (Law) 1933, MA 1934

Date: Saturday, October 30, 1982
Time: 6:00 p.m. Reception
7:30 p.m. Dinner
Place: Great Hall, Hart House
University of Toronto
Cost: \$35 (net proceeds to the Faculty of Law)

Note: *Due to limited seating capacity, only graduates of the BA (Law) and LL.B. Programmes of the University of Toronto are invited to attend.*

For further information please call (416) 978-3725

Unclaimed Diplomas

If one of the many unclaimed diplomas in U of T's office of Student Record Services, 167 College St., is yours, why not pick it up or have it sent to you by registered mail?

In the first case, you will need identification; if you send someone, a signed letter of authorization will be required. In the second case, write to: Diplomas, Student Record Services, University of Toronto, Toronto, M5S 1A1. Enclose a certified cheque or money order for \$6 and provide all of the following information, typed or printed: your graduation name; address; date of convocation; degree; faculty or school, and college if applicable; student number. If your name has changed since graduation, please provide some proof of your former name.

All November/December 1980 diplomas not picked up will be destroyed on Dec. 1, 1982. A replacement fee, currently \$30, will be assessed after that date.

THE PRESIDENTS' COMMITTEE COMES TO ORDER

MEMBERS OF THE PRESIDENTS' COMMITTEE were honoured at a dinner at Hart House on May 4. Provost Kenneth Hare of Trinity College spoke after the dinner.

Many members of the committee, composed of donors of \$1,000 or more in one calendar year to the University, are long-standing supporters but there is an increasing number of new members, some recent graduates. One new member said his gift was his way of repaying a bursary he had received as an undergraduate. His company matched his donation and U of T received \$2,250.

This year, the Council for Advancement and Support of Education recognized the committee with an exceptional achievement award — one of only four in North America in the category — for its dramatic growth. In 1977, the committee's first year, 151 members contributed \$303,000. In 1981, the 408 members contributed nearly \$1 million, excluding corporate matching funds, to the University.

C. Malim Harding, first chairman of Governing Council, has led the Presidents' Committee since its inception.



Above: Nora Vaughan is greeted by Mary Ham and the President.

Right: Father Kelly and Derry Surgey.



Left: Malim and Hope Harding.

Below: Harold Murphy, Marion Orser, Mary Agnes Murphy, Louis Odette, Ann Heisey, Earl Orser and Pat Odette.





Left: Dinner in the Great Hall.

Below: June Surgey at the reception in the East Common Room.



Left: John Riley of Santa Rosa, California, with Kenneth Hare.

Below: R.G.N. Laidlaw, Elizabeth Gordon, Hon. Walter Gordon and Stephen Smith.



"WOMEN BEWARE WOMEN" & THE ORIGIN OF LIFE

LECTURES

Literature as a Critique of Pure Reason.

Wednesday, Sept. 29.

Prof. Northrop Frye, Wiegand Foundation series on Irrationality in Western Society. Auditorium, Medical Sciences Building. 8 p.m.

Information: Faculty of Arts & Science; 978-3391.

University of Toronto Titans: Woodhouse, Bladen, Banting, Cody.

Tuesdays, Oct. 19, 26, Nov. 2, 9.

Lunch-time series presented by U.C. Alumni Association. Informal talk will be followed by discussion: Prof. J.M. Robson will speak on Prof. A.S.P. Woodhouse; Prof. Lorie Tarshis on Prof. Vincent W. Bladen; Prof. J.M. Bliss on Sir Frederick G. Banting; Sydney Hermant on Canon H.J. Cody. Media room (179), University College. 12 noon. Fee \$36 per person for series includes lunches.

Information and reservations: Alumni Office, University College; 978-8746.

Population Biology and the Origin of Life.

Wednesday, Oct. 20.

Prof. Freeman Dyson, Institute for

Details given were those available at press time. Readers are advised to check with the information telephone numbers provided in case of changes. Enquiries by mail should be addressed to the department concerned, University of Toronto, Toronto, M5S 1A1, unless otherwise indicated.

Advanced Study, Princeton; Jacob Bronowski Memorial Lecture 1982. Wetmore Hall, New College. 8 p.m. Information, 978-4118.

Investments.

Thursdays, Oct. 28, Nov. 4 and 18.

Series presented by Associates of Erindale on how to invest for the future. Council Chamber, South Building, Erindale College. 8 p.m.

Information and ticket prices, 828-5214.

CONFERENCE

Lyric Poetry and the New New Criticism.

Thursday, Oct. 14 to Sunday, Oct. 17.

Recent trends in the reading, interpretation and teaching of lyric poetry. Two lectures and a poetry reading will be open to the public depending on space available.

Information: Poetry Conference Co-ordinator, Victoria College; 978-3610.

PLAYS & OPERA

Glen Morris Studio Theatre.

September to April.

Graduate Centre for Study of Drama will present 10 plays in its 1983 studio season: classics and new plays, comedies and tragedies. Each production will be given for five performances, Tuesday to Saturday, at 8 p.m. Season subscription \$15, single \$2.

Information, 978-8668.

Hart House Theatre.

Oct. 6 to 9 and 13 to 16.

"Women Beware Women" by Middleton.

Nov. 17 to 20 and 24 to 27.

"A Midsummer Night's Dream" by Shakespeare.

First two of four plays, Graduate Centre for Study of Drama 1983 season; future productions, "The Homecoming" by Pinter and "Major Barbara" by Shaw. Performances at 8 p.m. Season subscription \$20, students and senior citizens \$10; single \$6, students and senior citizens \$3.

Information, 978-8668.

MacMillan Theatre.

Nov. 19, 20, 26 and 27.

"Don Giovanni" by Mozart. First production by Opera Division, Faculty of Music, 1983 season. Performances at 8 p.m. Tickets \$7, students and senior citizens \$4.50.

Information, 978-3744.

CONCERTS

EDWARD JOHNSON BUILDING Twentieth Anniversary Season.

Marking the faculty's move to the Edward Johnson Building, a number of special recitals will be given including Dennis Brott, cello, Oct. 4; Earle Moss, piano, Nov. 7; An Evening with Godfrey Ridout, Nov. 22; and Badinage with Stephen Chenette, trumpet, Ivan Hammond, tuba, and Susan Chenette, piano, Nov. 28.

Faculty Artists Series.

Saturday, Oct. 2.

Saturday, Nov. 13.

First two in series of four concerts planned and performed by the facul-

Preparation for Retirement Living

The Senior Alumni course offering ideas and suggestions for making the most of retirement and adjusting to the changes that retirement brings will be presented again in a series of seven lectures on Tuesday evenings from Oct. 12 to Nov. 23 at 162 St. George St. Topics to be discussed will include adjustment to retirement, making the most of your money, housing, community resources and the pleasure of leisure.

Fee for the series is \$20 per person. Cheques should be made payable to UTAA — Senior Alumni.

Information and registration: Department of Alumni Affairs, 47 Willcocks St.; (416) 978-8991.

Health, Exercise and Fun

The fourth HEFL — health, exercise and fun in your lifestyle — program is being offered for senior alumni and friends in the Warren Stevens Building of the Athletic Centre on Fridays, Sept. 24 to Nov. 26, from 10 a.m. to 12 noon.

The course is designed to improve participants' over-all fitness levels. Registration fee is \$25 per person. Those 65 years of age and older are entitled to free membership in the Athletic Centre. Enrolment is limited and those interested are asked to register as soon as possible.

Information and registration: Department of Alumni Affairs, 47 Willcocks St.; (416) 978-8991.

ty's artists; solo and ensemble works in a variety of musical styles in each program; future concerts Feb. 5 and March 26. Walter Hall. 8 p.m.
 Tickets: series \$24, students and senior citizens \$15; single \$7, students and senior citizens \$4.50.

U of T Symphony Orchestra.

Saturday, Oct. 16.

MacMillan Theatre. 8 p.m.

Tickets \$4, students and senior citizens \$2.50.

U of T Wind Symphony.

Sunday, Oct. 17.

MacMillan Theatre. 3 p.m.

Alumni Series.

Tuesday, Oct. 19.

Jane Coop, piano.

Tuesday, Nov. 23.

Betty-Jean Hagen, violin.

Walter Hall. 8 p.m. Second and third in series of four in co-operation with CBC Radio.

Tickets \$8, students and senior citizens \$4.50.

U of T Concert Choir.

Sunday, Nov. 14.

Walter Hall. 3 p.m.

University Singers.

Wednesday, Nov. 17.

Walter Hall. 8 p.m.

Faculty of Music Brass Choir.

Sunday, Nov. 21.

Walter Hall. 3 p.m.

Information on all concerts in Edward Johnson Building available from box office, 978-3744.

ROYAL CONSERVATORY OF MUSIC

Art Gallery Sunday Concert Series.

Oct. 10.

Anagnoson and Kinton, piano duo.

Nov. 14.

OTP Wind Ensemble.

First two of eight concerts to be held in Walker Court, Art Gallery of Ontario. 3 p.m.

Information on all Conservatory concerts available from publicity office, 978-3771.

TRINITY COLLEGE

Canadian Children's Opera Chorus.

Saturday, Nov. 13.

George Ignatieff Theatre. 3 p.m.

Tickets \$4, children \$3.

Information and tickets: Office of Convocation, 978-2651.

EXHIBITIONS

Scarborough College.

Sept. 27 to Oct. 15.

Boyle Huang, Chinese paintings and seal engravings.

Oct. 18 to Nov. 5.

Tonie Leshyk, mixed media.

Nov. 8 to 26.

Lyn Carter, mixed media.

Gallery hours: Monday-Thursday, 9 a.m. to 7 p.m.; Friday, 9 a.m. to 5 p.m.; Sunday, 2 to 5 p.m.

Erindale College.

Oct. 14 to Nov. 5.

Fay Sproule, water colours.

Nov. 10 to Dec. 3.

Focus on Hand-woven Fabrics, travelling show from Ontario Crafts Council. Gallery hours: Monday-Friday, 10 a.m. to 9 p.m.; Saturday-Sunday, 2 to 5 p.m.

MISCELLANY

Woodsworth College Alumni Association.

Open House.

Wednesday, Oct. 6.

Wine and cheese. Woodsworth College. 5 to 7 p.m.

Information: Ruby Steiger, 233-4892.

Telethon.

Monday to Thursday, Oct. 18 to 21.

Volunteers needed.

Information: Margaret Toth, 421-7051.

Santa Claus Party.

Sunday, Nov. 14.

After the parade if it is held, for

Lecture-cise

The Senior Alumni in co-operation with the School of Physical and Health Education will present an eight-week lecture and exercise program for seniors on Wednesdays, Oct. 4 to Nov. 24, from 10 a.m. to 12 noon at the Athletic Centre. Lectures on topics including recreation, physiology and nutrition will be given in the first hour. The second will be devoted to light rhythmical movement focused on maintaining flexibility.

Registration fee is \$50 per person. Enrolment is limited and those interested are asked to register as soon as possible.

Information and registration: Continuing Studies, School of Physical and Health Education, 978-4810 or 978-3448; or Department of Alumni Affairs, 978-8991.

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Departures, Dec. 17, 1982; Feb. 25, Mar. 25, Apr. 22 and May 13, 1983.

A quality tour at exceptional price! Tour incl. air fare, all meals (except Helsinki), 1st class hotels, theatre tickets, extensive sightseeing.

Contact your travel agent or Canadian Travel Abroad Ltd., 80 Richmond St. W., Toronto M5H 2A4 (416) 364-2738.

Does not incl. \$35 p.p. Cdn. airport tax and visa fee to USSR.

Canadian Perspectives, Fall 1982

An informal, academically oriented lecture and discussion series for senior alumni and friends will be presented on Mondays, Oct. 4 to Dec. 6, in the media room (179) of University College from 1.30 to 3.30 p.m.

Speakers and topics will be:

Prof. M. Qadeer Baig, Saudi Arabia; *Prof. R.N. Bird*, fiscal aspects of Confederation; *Prof. Thomas Pangle*, types of government; *Prof. C.B. Alcock*, the Department of Metallurgy and Materials Science at home and abroad; *Prof. W.N. Irving*, evolution of man in North America; *Principal Joan Foley*, the college system at U of T; *Prof. H.J. Leutheusser*, tidal power; *Prof. Denton Fox*, England in Chaucer's day; *Dr. James Cruise*, the R.O.M.

Registration fee, which includes one luncheon, is \$21 per person. Please make cheques payable to UTAA — Senior Alumni.

Information and registration: Department of Alumni Affairs, (416) 978-8991.

alumni and children. Drill Hall.
Information: Norma Brock, 535-3980.

Football.

Friday, Oct. 8.

Blues vs York. 7.30 p.m.

Saturday, Oct. 16.

Blues vs Waterloo. 2 p.m.

Varsity Stadium. Tickets: box seats \$6, reserved seats \$4, general \$3, students \$2.

Information: Department of Athletics & Recreation, 978-3437.

Other intercollegiate schedules include rugby, soccer and men's and women's hockey and basketball.

Information and ticket prices, 978-3443.

Car Rally.

Saturday, Oct. 16.

Annual fall rally sponsored by Erin-dale College Alumni Association. Fee \$5 in advance, \$7 at rally. 161 North Building, Erindale College. 1 p.m.

Information, 828-5214.

Book Sale.

Wednesday to Friday, Oct. 20 to 22.

Friends of the Library, Trinity College, seventh annual sale. All kinds of books needed. Seeley Hall. Wednesday, 7 to 10 p.m.; Thursday, 11 a.m. to 9 p.m.; Friday, 11 a.m. to 3 p.m. Opening night admission 50 cents, refreshments.

Information and book collection, 978-2651.

Victoria Women's Association.

Wednesday, Oct. 27.

Open house. 7 to 9 p.m.

Wednesday, Nov. 24.

University Financing. W.C.

Winegard, formerly Ontario Council on University Affairs. 2 p.m.

Wymilwood, Victoria College.

Information: Mrs. J.B. Archer, 274-2004.

Scarborough College Alumni Association.

Monday to Thursday, Nov. 1 to 4.

Alumni phone-a-thon, four nights.

Information, 284-3232.

Book Sale.

Wednesday to Friday, Nov. 3 to 5.

University College fourth annual sale. Book donations welcomed. West Hall.

Wednesday, 7 to 10 p.m.; Thursday, 11 a.m. to 6 p.m.; Friday, 10 a.m. to 1 p.m.

Information and book collection, 978-8746.

Convocation.

Saturday, Nov. 27.

Faculty of Theology, University of St. Michael's College; honorary graduate, Rev. John M. Kelly. St. Basil's Church. 2 p.m.

CRYPTIC CROSSWORD/BY CHRIS JOHNSON

THE GRADUATE TEST NO. 17

THE WINNER OF THE Graduate Test No. 15 in the March/April issue was a joint entry signed by Margaret Kobes and Vera Griffith of, respectively, Strathroy and Kingston. A copy of the *Encyclopedia of Music in Canada* has been mailed to one of the two and doubtless will be shared somehow. We received a total of 387 entries.

Winner of The Graduate Test No. 16 in the May/June issue was Morton Rapp of Willowdale. A copy of *The Shaping of Peace: Canada and the Search for World Order 1943-1957*, volumes 1 and 2, has been mailed. There were only 180 entries received.

For Test No. 17 the University of Toronto Press has generously provided a lavish confection, J. Russell Harper's *Krieghoff*. The book contains 150 reproductions of his work, 53 of them in colour. Entries must be postmarked on or before Oct. 31. The solution will be in the next issue; the winner in Jan./Feb.

Address entries to: The Graduate Test, Department of Information Ser-

vices, University of Toronto, Toronto M5S 1A1. And please don't forget to include your name and address.

ACROSS

1. Lack of awareness of big government giving strange concessions around the States (15)
9. Terminal rank (7)
10. A Trojan, 'e's 'olding the French voter (7)
11. Flesh holds, watch out for task done hastily (9)
12. Him French soldier, Italian man (5)
13. It cuts in before company holding is right (7)
15. Feed novelist during honourable return (7)
16. Manoeuvres legislation in jerks (7)
19. Masters spat on dog (7)
21. Listen to simultaneous notes from the strings (5)
22. Missionary's cover rent asunder (9)
24. Greek letter about fit representation (7)
25. Take the head off a beer following unfinished one that may be brewed (4,3)
26. Hogan-Warburg, for ex-

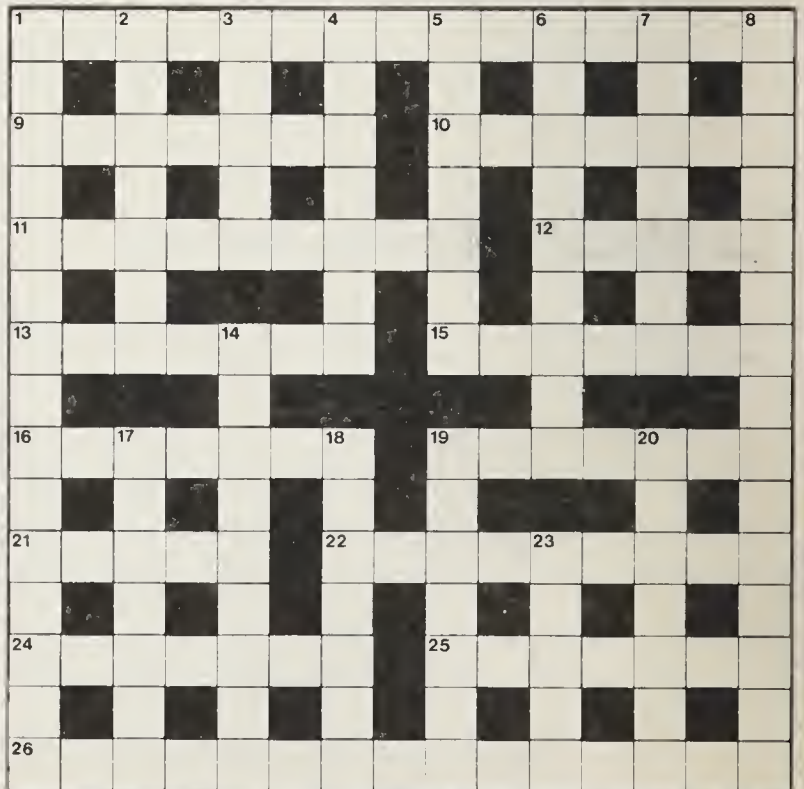
ample, is ambiguous (6-9)

DOWN

1. I act poised; hunt's viciously artless (15)
2. Fellow loses quietly; love spasm is wild (7)
3. We hear no horse's noise (5)
4. Study excursion outline (7)
5. A person's relatives make a person hide (4,3)
6. The lady will, with knock-out get-up, prepare pecans for eating, perhaps (5,4)
7. "Wait," Ike disclosed: "A hungry Maori might do it" (3,4)
8. Frank is a good man and just holding a cross without conflict (15)
14. Nautical timepiece is mixed with lead in racing boat (5,4)
17. Animal has calcium on bone; ring University (7)
18. Give up rotten cucumbers without hesitation (7)
19. "Nasty wrestler, mister, around the corner" (7)
20. Altogether, passing the outer limit of unfinished lecture (2,5)
23. Wipe out age points (5)

Solution to The Graduate Test No. 16

D	E	C	I	M	A	L	M	E	D	I	C	A	L
E	A	E	I	E	E	A	E	A	E	E	A	A	
C	A	N	V	A	S	S	E	R	T	E	N	E	
L	N	S	T	R	A	D	E	A	S	I	L	E	
A	S	I	L	U	M	V	I	L	I	F	I	E	
I	R	M	N	D	A	M	I	S	B	E	H	A	
M	I	S	B	E	H	A	V	E	C	A	L	L	
E	D	L	N	T	T	E	N	O	V	A	M	A	
N	O	V	A	M	A	T	C	H	L	E	S	S	
E	E	I	A	I	L	A	C	R	O	N	I	M	
A	C	R	O	N	I	M	S	C	O	T	I	A	
R	A	F	A	D	K	O	N	E	R	N	I	E	
E	R	N	I	E	T	H	R	E	S	H	O	L	
S	C	S	E	O	E	T	E	R	T	H	E	A	
T	H	E	A	T	E	R	P	I	T	C	H	E	



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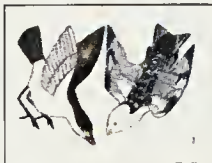
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